H3.fasta

logo
2829296|Leishmania_braziliensis/1-130
154333209|Leishmania_braziliensi/1-130
134059870|Leishmania_braziliensi/1-130
261889460|Leishmania_donovani/1-130
729678|Leishmania_infantum/1-129
7544111|Leishmania_amazonensis/1-130
7544110|Leishmania_amazonensis/1-129
146082590|Leishmania_infantum/1-130
134068643|Leishmania_infantum/1-130
68235789|Leishmania_donovani/1-130
146079265|Leishmania_infantum/1-130
134067827|Leishmania_infantum/1-130
157865427|Leishmania_major/1-130
157867169|Leishmania_major/1-130
115488322|Oryza_sativa/1-136
125536397|Oryza_sativa/1-136
115488324|Oryza_sativa/1-136
125536398|Oryza_sativa/1-136
114599056|Pan_troglodytes/1-147
109076794|Macaca_mulatta/1-136
consensus
logo
2829296|Leishmania_braziliensis/1-130
154333209|Leishmania_braziliensi/1-130
134059870|Leishmania_braziliensi/1-130
261889460|Leishmania_donovani/1-130
729678|Leishmania_infantum/1-129
7544111|Leishmania_amazonensis/1-130
7544110|Leishmania_amazonensis/1-129
146082590|Leishmania_infantum/1-130
134068643|Leishmania_infantum/1-130
68235789|Leishmania_donovani/1-130
146079265|Leishmania_infantum/1-130
134067827|Leishmania_infantum/1-130
157865427|Leishmania_major/1-130
157867169|Leishmania_major/1-130
115488322|Oryza_sativa/1-136
125536397|Oryza_sativa/1-136
115488324|Oryza_sativa/1-136
125536398|Oryza_sativa/1-136
114599056|Pan_troglodytes/1-147
109076794|Macaca_mulatta/1-136
consensus
non conserved
similar
≥ 50% conserved
≥ 80% conserved

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logo

109076802|Macaca_mulatta/1-136      ...............MARTKQTARK..ATNWQAPRKPLATKA.PGKRL..P.P.RGGIKKPH.RYRPGTQALREIRKYQKSTQLLLRKLPFQRLVREIAQAISPDLRFQSAALGALQEASEAYLVNLFEDTNLCAIHARR   117
91719104|Anoplodactylus_erectus/1-109 ......................RK..STGGKAPRKQMATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVAFREIRRSKNPPGLLIRKLPFQGLVREIAQDFKTDLRFQSFAVMALQEASEAYLLGLFEDTNLCAIHAKR   109
300120448|Blastocystis_hominis/1-135 ...............MARTKQTARK..STGGKVPRKQLATKA.ARKSS..P.A.AGAVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREVAQDFKNDLRFQGSAVMALQEAAEAYLVSLFEDTNLCAIHAKR   117
300121984|Blastocystis_hominis/1-135 ...............MARTKQTARK..STGGKVPRKQLATKA.ARKSS..P.T.AGAVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREVAQDFKNDLRFQSSAVMALQEAAEAYLVSLFEDTNLCAIHAKR   117
1197519|Narcissus_pseudonarcissu/1-128 ......................AS..WTGGKGXRKQXATKA.ARXSA..P.A.TGGVKKPH.RFRPGTVALREIRRYQKSXELLIRKXPFQRXVREIAQDFKTDLRFQXSAVAALQEAAESYLVGLFEDTNXCAIHAKR   109
158346152|Goniomma_hispanicum/1-107 ......................RX..STGGKAPRKQLATKA.ARKXA..P.A.TGGVKKPH.RYXPGTVALREIRRYQKVTEHLIRKLPFQRLVREIAQXFKTDLRFQXSAVMALXEASEAYLVGLLXDTNFCAIXA..   107
283857523|Penthimia_americana/1-117 ...................KQTAXK..STGGKAPXKQLATKA.AXXSA..P.A.TGGVXKPH.RYRPGTVALREIRRYQKSTELLIRXXPFQRXVREIAQDXKTDLRFQSSAVMALQXASEAYLVGLFXDTNLCAIHAKR   113
158346166|Cyphomyrmex_sp./1-107 ......................RK..STGGKAPRKXXATKA.ARKXA..P.A.TGGVKKPH.RYXPGTVALREIRRYQKSTEXLIRKLPFQRLVREIAQDFXTDLRFXSSAVMALQXAXEAYLVGLFXDTNLCAIHA..   107
158346178|Lasius_alienus/1-107 ......................RK..STGGXAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREXRRXQKXTELLXRKXPFXRLVREIAQDFKTDLRFXSSAVMALQEASEAYLVGSFEDTNLCAIHA..   107
150247979|Nilomantis_edmundsi/1-125 ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYXXSXXLXIRKXPXQRLXREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
196175131|Cathedra_serrata/1-107 ........................K..FTGGKAPRKQLATKA.ACKSA..L.A.TGGVKKPH.HYRPGTHALREIRRYQKSTELLICKLPFQRVVREIVQDFKTDLRFQSSAVMALQEASKAYLVGLFEDTNLCAIHAK.   107
166092298|Cebrenninius_rugosus/1-109 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQTIKAGVRFQSSAVLALQEASEAYLVELFESTNLCAIHARR   109
91719074|Nymphon_floridanum/1-108 ......................RK..STGGKAPSKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALRETAATRSATELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   108
91719018|Pentanymphon_antarcticu/1-109 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALRDIRRXQKXTELLIRKLPFQRSGREIAQDFKTDLRFQSFXVXALQEASEAYLVGLFEDTNLCAIHAKR   109
90184394|Hypsiboas_cinerascens/1-109 ......................RK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKXPH.RXRPGTVALREIRRYQXSTELXIRKXPFQRLVREIAQDFKTDLRFQSSAVMALQXASEAYLVVLFEDTNLCAIHAKR   109
58199355|Paratilapia_cf./1-93 ......................ARK..STXGKAPRKQLGTKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYXKSTELLIXKLPFQRXVREIAQDFKXLPRFQSSXVMALQEASEAY................   93
122077|Cairina_moschata/1-136 ...............MARTKQTACK..STGRKAPRKQLATKA.AHKSA..P.A.MGGVKKPH.CYRPGTVALHEIHRYQKSTELLICKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
224869|Anas_platyrhynchos/1-136 ...............MARTKQTACK..STGRKAPRKQLATKA.AHKSA..P.A.MGGVKKPH.CYRPGTVALHEIHRYQKSTELLICKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
57232783|Labidura_riparia/1-125 ...............MARTKQTARK..STGGKAPRKQLAXKA.AXKSA..P.A.TGGVKKPH.RYRPGXXALREIRRYQKSTXLLIRKLPFXRLVREIAQDFKTDXRFQSSAVMALQEASEAYLVSLFEDTNLCAIHAKR   117
262068517|Floronia_bucculenta/1-102 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKXPH.RYRPGTVALREIRRXQKSTELLIRXLPFXRLVXEIAQDFXTDLRFQSSAVMALQEASEAYLVGXFEDTNL........   102
consensus                            *K  STGGKAPRKQLATKA A*KSA  P A *GGVKKPH RYRPGTVALREIRR*QK*T*LLIRK*PFQRLVREIAQDFK*DLRFQSSAVMALQEASEAYLV*LFEDTNLCAIHA**

logo

109076802|Macaca_mulatta/1-136      VTIMPRDMQLARRIRGEGA..............   136
91719104|Anoplodactylus_erectus/1-109 ..............................   109
300120448|Blastocystis_hominis/1-135 VTIMPRDMQLARRIRNEK...............   135
300121984|Blastocystis_hominis/1-135 VTIMPRDMQLARRIRNEK...............   135
1197519|Narcissus_pseudonarcissu/1-128 VTIMPKDIQLARRIRGERA.............   128
158346152|Goniomma_hispanicum/1-107 ..............................   107
283857523|Penthimia_americana/1-117 VTIM..........................   117
158346166|Cyphomyrmex_sp./1-107 ..............................   107
158346178|Lasius_alienus/1-107 ..............................   107
150247979|Nilomantis_edmundsi/1-125 VTIMPKDI.......................   125
196175131|Cathedra_serrata/1-107 ..............................   107
166092298|Cebrenninius_rugosus/1-109 ..............................   109
91719074|Nymphon_floridanum/1-108 ..............................   108
91719018|Pentanymphon_antarcticu/1-109 ..............................   109
90184394|Hypsiboas_cinerascens/1-109 ..............................   109
58199355|Paratilapia_cf./1-93 ..............................    93
122077|Cairina_moschata/1-136 VSIMPKDIQLTRRIRGERA.............   136
224869|Anas_platyrhynchos/1-136 VSIMPKDIQLTRRIRGERA.............   136
57232783|Labidura_riparia/1-125 VTIMPKDI.......................   125
262068517|Floronia_bucculenta/1-102 ..............................   102
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
262068533|Microneta_viaria/1-107          .....................RK..STGGKAPRKQLATKA.ARKXA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKXPXQRXVXEIAXDFKTDLRFQSSAVMAXQEASEAYLVGLFEDTNLCAIHA..   107
308106289|Parasiro_coiffaiti/1-109          .....................RK..STGGKAPRXQLATKA.ARKSA..P.A.TGGXKKPH.RYRPGTVXLREIRRYQKSTELLXXKLPFQRLVXEIAXDFKTDLXFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
223403443|Badumna_longiqua/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTGXYPTQLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
92110658|Chione_subimbricata/1-109          .....................RK..STGGKAPRKQLATKA.ARKXA..P.A.TGGVKKPX.XYRPGTVALREIRRXQKSTELLIRKXPFQRLVREIAQDFKTDLRFQSSAVLALQEASXAYLVGLXEDTNLCAIHAKR   109
56089830|Percopsis_omiscomaycus/1-110       ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPLQRLXHEHAQDFXTDLRFQSSAVMALQEANEAXLVGLFEDTNLCAIHAKR   110
92110690|Periglypta_listeri/1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKXPH.RYRPGTVALRXIRRYQKSTXLLIRXLPFQRLVREIAQDFKTDLRFQSSAVLALQEAXEAYLVGLFEXTNLCAIHAKR   109
119690004|Anelosimus_eximius/1-116           ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRXXQKXTELLIRKLPFXRLVXEXAQBFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
98374353|Hyloxalus_subpunctatus/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLXRXLPFQRLVREIAQDFKTDLRFQSSAVMAXQXAXXAYLVGLFEDXXLCAXIAKR   109
83655603|Rastrognathia_macrostom/1-103      .....................RK..STGGKAPRKRLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVAFREIRRYQKSTELLVRKLPFQRLVREIAQDFKTDLRFQSSAIMALQEAAEAYLVGLFKTLIIA......   103
158829318|Gigantococcus_maximus/1-110       ....................ACK..SNGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALQEIRRYXKSTELLIRKLPFQRLVREIAQYFKTDLRFQSSAVMXLQEAIEAYLVGLFEDTNLYAIHAKR   110
297040898|Callobius_sp./1-102               ...................................ALXA.KRVIX..H.A.XGYKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAYLXGLFEDTNLCAIXAKR    96
194173319|Neopurcellia_salmoni/1-109        .....................RK..STGGXAPRKQLATKA.ARKSA..P.A.TGGVKXPH.RYRPGTVALREIRRYQXSTELLIRKXPFQRLVREIAQXFKTDLRFXSSAVMALQEASXAYXVGLFEDTNLCAIHAKR   109
158345894|Pheidole_cavigenis/1-107          .....................RK..STGGKAPRXXLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRXQKSTELLIRKXPFQRLVREIAQDFKTDLRFQSSAVMALQXASEAXLVGLFEDTNXCAIHA..   107
170039772|Culex_quinquefasciatus/1-121      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRRYQKSTDLLLRKAPFQRLVREVAQDFKTDLRFQSSSVMALQEACEAYLVGLFEDTNLCAIHAKR   117
57232779|Echinosoma_micropteryx/1-125       ...............MARTKQTARK..STGGKAPXKQXATKA.ARKSA..P.A.TGGVKKPH.RYXPGTVALREIRRYQKSTELLIRKLPFQRLVXEIAQDSRTDLRFQSSAVMALQEASEAYXVGLFEDTNLCAIHAKR   117
26800908|Oikopleura_dioica/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGIKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREDAQQAKSDLRFQSSAVMALQEASEAYLVGLFEDSNLCAIHAKR   117
81158374|Anopsobius_neozelandicu/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.SGGVKKPH.RYRPGTVALREIRCYQKSTELLIRKLPFPRLVSEIAQDFXTDLRFQSSAVMALQEASEAYLLGLFEDTNLCAIHAKR   109
223403467|Meta_ovalis/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELVIRKLPFQRLVREXAXDFXTDLXFQSSAVMALQEASEAYLVXLFEDTNLCAIHAKR   109
71028626|Theileria_parva/1-136              ...............MARTKQTARK..STGGKAPRKQLASKA.ARKTA..P.V.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREVAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
84996541|Theileria_annulata/1-136           ...............MARTKQTARK..STGGKAPRKQLASKA.ARKTA..P.V.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREVAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
consensus                                                              RK  STGGKAPRKQLATKA.ARK*A  P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELL*RK*PFQRLV*E*AQDFKTDLRFQSSAVMALQEA*EAYLVGLFEDTNLCAIHAKR
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
262068533|Microneta_viaria/1-107          ..................................   107
308106289|Parasiro_coiffaiti/1-109          ..................................   109
223403443|Badumna_longiqua/1-109            ..................................   109
92110658|Chione_subimbricata/1-109          ..................................   109
56089830|Percopsis_omiscomaycus/1-110       ..................................   110
92110690|Periglypta_listeri/1-109           ..................................   109
119690004|Anelosimus_eximius/1-116          VTI...............................   116
98374353|Hyloxalus_subpunctatus/1-109       ..................................   109
83655603|Rastrognathia_macrostom/1-103      ..................................   103
158829318|Gigantococcus_maximus/1-110       ..................................   110
297040898|Callobius_sp./1-102               VTXMPK............................   102
194173319|Neopurcellia_salmoni/1-109        ..................................   109
158345894|Pheidole_cavigenis/1-107          ..................................   107
170039772|Culex_quinquefasciatus/1-121      GFTE..............................   121
57232779|Echinosoma_micropteryx/1-125       VTXMPKDI.........................   125
26800908|Oikopleura_dioica/1-136            VTVMPKDMALARRIRGEAK...............   136
81158374|Anopsobius_neozelandicu/1-109      ..................................   109
223403467|Meta_ovalis/1-109                 ..................................   109
71028626|Theileria_parva/1-136              VTIMPKDVHLARRLRGERA...............   136
84996541|Theileria_annulata/1-136           VTIMPKDVHLARRLRGERA...............   136
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                          4 3 2 1   MARTKQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   4 3 2 1
65303988|Theileria_annulata/1-136          ...............MARTKQTARK..STGGKAPRKQLASKA.ARKTA..P.V.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREVAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
68350910|Theileria_parva/1-136            ...............MARTKQTARK..STGGKAPRKQLASKA.ARKTA..P.V.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREVAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
109159098|Elassoma_evergladei/1-110        ......................ARK..STGGKXRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRKXXFQRLVREIXQDFXTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
262178730|Selenops_insularis/1-107         ......................RK..STGGKAPRKQXATKA.ARKSA..P.A.XGGVKKPX.RXRPGTVALREVRRYQKSTELLIRKLPFXRLVREIAQDFKTDLRFXSSAVMALQEASEAYLVGLFEDTNLCAIHA...   107
294805065|Spaniocerca_hamishi/1-96          ...........................ATKA.ARKSA..X.A.TGGVXKPH.XYRPGTVALREXRRYXKSTELLIXKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   96
281323530|Stylocellus_sp./1-109             ......................RK..STGGKAPRXQLAXKA.ARKSA..P.A.XGGVKKPH.RSRPGXVALREIRRYQKSTELLXRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFENTNLCAIHAKR   109
124488489|Andex_insignis/1-102              ...........STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGXVALREIRXXXKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALKEASEAYLVGLFEDTNLCA.....   102
119690018|Anelosimus_may/1-118              ..................TKQTARK..STGGKAPRKQLXXKA.ARKXA..P.A.TGGVKKPH.RYXPGTVALREILXXDKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
156547836|Nasonia_vitripennis/1-136         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRRYQKSTELLLRKXPFQRLVREIAQDFKTDLRFQSSSVMALQEACEAYLVGLFEDTNLCAIHSKR   117
50897761|Grammistes_sexlineatus/1-110       ......................ARK..STGGKAPRKQLATKT.ARKSA..P.A.TGGVKKPH.RYRXGTVALREXRRYQKSTEXLIRKLPFQRLVREIAQDFKTDLRFXSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
98365393|Troglosiro_aelleni/1-99            ......................RK..STGGKAPRKXLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKXDLRFQSSAVMALQEAXGXXLVGLFED..........   99
91719038|Phoxichilidium_femoratu/1-108      ......................RK..STGGKAPRNQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEANEAYRVGLFEDTNLCAIHAX.   108
256387131|Brachiopoda_sp./1-92              ...........................GGKAPXKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELXIRKLPFQRLVREIAQDFKTDLRFQSSAVXALQEASEAYLVGL..............   92
58199349|Paretroplus_cf./1-110              ......................ARK..STXGKAPRKQLATKX.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFXSSAVMALQXASEAYLVGLFEDTNLCAIHAKR   110
188037156|Archisepsis_pleuralis/1-119       ................ARTXQXARK..XXGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQXASEAYLVXLXZDTNLCAXXAKX   116
194173299|Rakaia_magna/1-109               ......................RK..STGGKAPRNQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSXVMALXEASEAXXVGLFXXTXXCAIHAXR   109
73919914|Cichorium_intybus/1-136            ................MARTKQTARK..STGGKAPRKQLATKA.WNTLA..T.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEASEAYLVGLFEDTNLCAIHAKR   117
288990|Xenopus_laevis/1-136                ................MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGESKKPH.RYRPGTAALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTXLRFQSSAVMALQXASEAYLVGLFEDTNLCAIHAKR   117
58199383|Acarichthys_heckelii/1-93          ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFXTDLRFZSSAVVALQEASEAY.................   93
281313152|Colossendeis_sp./1-93             ...........................................A.ARKSA..P.A.TGGVXKPH.RYRXGTVALXEIRRYQXSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   93
consensus                                                *RK  STGGKAPR*QLA*KA ARKSA  P A TGGVKKPH R*RPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAV*ALQEA*EAYLVGLFEDTNLCA*****
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logo                                          4 3 2 1   VTIMPKDVHLARRLRGERA   4 3 2 1
65303988|Theileria_annulata/1-136           VTIMPKDVHLARRLRGERA..............   136
68350910|Theileria_parva/1-136              VTIMPKDVHLARRLRGERA..............   136
109159098|Elassoma_evergladei/1-110         ................................   110
262178730|Selenops_insularis/1-107          ................................   107
294805065|Spaniocerca_hamishi/1-96          ................................   96
281323530|Stylocellus_sp./1-109             ................................   109
124488489|Andex_insignis/1-102              ................................   102
119690018|Anelosimus_may/1-118              VTIM............................   118
156547836|Nasonia_vitripennis/1-136         VTIMPKDMQLARRIRGERA..............   136
50897761|Grammistes_sexlineatus/1-110       ................................   110
98365393|Troglosiro_aelleni/1-99            ................................   99
91719038|Phoxichilidium_femoratu/1-108      ................................   108
256387131|Brachiopoda_sp./1-92              ................................   92
58199349|Paretroplus_cf./1-110              ................................   110
188037156|Archisepsis_pleuralis/1-119       VXX.............................   119
194173299|Rakaia_magna/1-109                ................................   109
73919914|Cichorium_intybus/1-136            VTIMPKDMQLARRIRGERA..............   136
288990|Xenopus_laevis/1-136                 VTIMPKDIQLARRIRGERA..............   136
58199383|Acarichthys_heckelii/1-93          ................................   93
281313152|Colossendeis_sp./1-93             ................................   93
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199393|Cichla_temensis/1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVXLRXIRRYXKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLFGLFEDTNLCAIXAKR    110
209970252|Thysanoteuthis_rhombus/1-109            ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALRZIRRYQKSTELLIRKLPFQRLVRQIAHDFKTDLRFQSSAVMALQEASEAYLVXLFEDTNLCAIHAKR    109
50897701|Cottus_carolinae/1-107                   ........................STGGKAPRKQLATKA.ARKSA..P.X.TGGVKKPH.RYXPGTVALREIRRYQKSTELLIXKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLXEDTNLCXIHAKR    107
306975236|Selenops_sp./1-109                      ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVXLREIXRYQKSTELLIXKLPFXRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDXNLCAIHAKR    109
209970228|Discoteuthis_discus/1-109               ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKEAH.RYRPGTVALREIRRYSKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLLKTPTLCAIHAKR    109
296125043|Liposcelis_paeta/1-110                  ....................RN..LPGGKAPRKQLATXA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRXLPFQRLVREIAQDFKTDLRFQSSAVMALXEASEAYLVGXFEDTNLCAIHAKR    109
60543098|Conocephalum_conicum/1-136               ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSVVLVLQEGSEAYLVGLFEDTNLCVIHVKR    117
52699651|Onychiurus_ambulans/1-109                ....................CK..STGGKAPRKXLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKXDLRFQSSAVMALGXASEAYXVGLFEDTNLCAXHAKR    109
281323546|Stylocellus_sp./1-102                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTXLLIRKLPFQRLVRXIAQXFKTDLRXQSSAVMALQEASEAYLVGLFXDTNL.......    102
262178782|Selenops_insularis/1-105                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.XGGVKKPH.RYRPGTVXLREIRRYQKSTELLIXKLPFQRLVREIAQDFKTDLRFXSSAVMALQEASEAYLVGLFEDTNLCAI....    105
70609172|Gerres_equulus/1-110                     ....................ARK..STGGKASRKQLAPKA.ARKSA..P.A.TGGVKKPH.RYRPGTXXLREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVXALXEASEAYLVGLFEDTNLCAIHAXR    110
70609168|Coryphaena_hippurus/1-110                ....................AXN..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTXXLREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSXAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
158346056|Pheidole_senex/1-107                    ....................RK..STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTXXLIRKXPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNXCAIHA..    107
83655588|Cosmognathia_arcus/1-109                 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRRYQKSTELLLRRMPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
109159116|Gobiesox_rhessodon/1-110                ....................GRK..SSGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPXTVALRXIRRYQKSTXLLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
62130966|Cuerna_costalis/1-109                    ....................RK..STGGXAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIXRYQKSTELLIRKLPFQRLVREIAQDFKTXLRFQSSAVMALQEASEAXLVGLFEDTNLCAIHAKR    109
296125035|Menopon_gallinae/1-110                  ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKXPH.RYRPGTVALREIRRYQKSTXLLIRKXPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYXVGLFEDTXLXAIHAKR    109
194173287|Austropurcellia_scopar/1-109            ....................RK..STGGKAPXKQLATKA.ARXSA..P.A.TGGVKKPH.RYRPGTVALREXRRYXXSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
109159220|Pseudopentaceros_pecto/1-110            ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RSRPRTXALREIRRYQKSTELLXRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
70609136|Lampris_guttatus/1-110                   ....................ARK..STGGKAPRKQLAXKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRXYQKSTELLXRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXHAKR    110
consensus                                          RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199393|Cichla_temensis/1-110                  ..............................    110
209970252|Thysanoteuthis_rhombus/1-109            ..............................    109
50897701|Cottus_carolinae/1-107                   ..............................    107
306975236|Selenops_sp./1-109                      ..............................    109
209970228|Discoteuthis_discus/1-109               ..............................    109
296125043|Liposcelis_paeta/1-110                  V.............................    110
60543098|Conocephalum_conicum/1-136               VTIMPKDIQLAPRIRGERN...........    136
52699651|Onychiurus_ambulans/1-109                ..............................    109
281323546|Stylocellus_sp./1-102                   ..............................    102
262178782|Selenops_insularis/1-105                ..............................    105
70609172|Gerres_equulus/1-110                     ..............................    110
70609168|Coryphaena_hippurus/1-110                ..............................    110
158346056|Pheidole_senex/1-107                    ..............................    107
83655588|Cosmognathia_arcus/1-109                 ..............................    109
109159116|Gobiesox_rhessodon/1-110                ..............................    110
62130966|Cuerna_costalis/1-109                    ..............................    109
296125035|Menopon_gallinae/1-110                  V.............................    110
194173287|Austropurcellia_scopar/1-109            ..............................    109
109159220|Pseudopentaceros_pecto/1-110            ..............................    110
70609136|Lampris_guttatus/1-110                   ..............................    110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                 4 3 2 1
                                                     MARTKQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4 3 2 1

47190613|Tetraodon_nigroviridis/1-131   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKS.........GVKKPH.RYRPRTVAMREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVTALQEASEAYLVGLFEDTNLCAIHAKS   112
109159126|Icosteus_aenigmaticus/1-110   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVXKXH.RDRPXTVALREIRRYQKSTELLIRKLPFQRLXREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
255934662|Gonypetella_sp./1-109       ......................RK..STGGKAPXKQXATKA.AXKSA..P.A.TGGVKKPH.RYXPGTVALREIRRYQKSTELXIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
50897655|Aploactisoma_milesii/1-108   .......................K..STGGKSSRKQLATKA.ARXSA..P.X.TGGVKKPH.RYRPGTVALREIRXYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   108
52699649|Xenylla_grisea/1-109         ......................RK..STGGKAPRKQLASKA.ARKSV..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLXRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHAKR   109
224814518|Phyllium_siccifolium/1-100  ..................................RKQLATKA.ARKST..P.A.TGGVKQPH.RYSPGTVALREIRRYQKSTELLIRKLPFQRFAREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   100
264687481|Paralycaeides_vapa/1-109    ......................RK..STGGXAPRKQLATXA.ARXSA..P.A.TGXVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQXXVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296125029|Heterodoxus_spiniger/1-110  ......................RK..STGGXAPRKQLATKA.ARKSX..P.A.TXGVKXPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEXSEAYLVGXFEDTNLCAIHAKR   109
283857381|Bahita_sp./1-117            ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKXPH.RYRPGTVALREIRRYQKSTEXLIRXLPFQRLVREIAQXFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
259157647|Zelandoperla_fenestrat/1-97 ..................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRNLPFQRLVREIAQDFKTDLRFQSSYVMALQEASEANLVGLFEDTNLCAIHAKR    97
158346148|Aphaenogaster_senilis/1-107 ......................RK..STGGKAPRXQLATKA.ASKXA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGLFEDTNFCAIHA..   107
91719096|Pseudopallene_ambigua/1-105 ....................LEER..LQGSSWPLRQQGS.....SA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASKAYLVGLFEDTNLCAIQAK.   105
158345972|Pheidole_laselva/1-107      ......................RK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPX.RYXPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGLFEDTNFCAIHA..   107
158829302|Crypticerya_rosae/1-110     ......................ARK..STGGKAPRKQLATKA.ARRSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLRKLLFQRLVREIDQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
3002649|Nassarius_burchardi/1-91     ..................................KAPRKQLATKA.ARKXX..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGFL............    91
57232763|Opisthocosmia_tenius/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYXKSTELXIRKLPFXRLVREIAQDFKTDLRFXSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
208479676|Gymnogeophagus_gymnoge/1-110 ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFXSSAVMALQEASEAYLVGLIEDTNLCAIHAKR   110
306975372|Selenops_sp./1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFXRLVREIAQDFKTDLRFXSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
306975572|Selenops_sp./1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFXSXAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
62130944|Diestostemma_stesilea/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFXSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                             *K  STGG*APRKQLATKA ARKS*  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRF*SSAVMALQEASEAYLVGLFEDTNLCAIHAK*

logo                                                 4 3 2 1
                                                     VTITPKDIQLARRIRGERA 4 3 2 1

47190613|Tetraodon_nigroviridis/1-131   VTITPKDIQLARRIRGERA.............   131
109159126|Icosteus_aenigmaticus/1-110   ..................................   110
255934662|Gonypetella_sp./1-109         ..................................   109
50897655|Aploactisoma_milesii/1-108     ..................................   108
52699649|Xenylla_grisea/1-109           ..................................   109
224814518|Phyllium_siccifolium/1-100    ..................................   100
264687481|Paralycaeides_vapa/1-109      ..................................   109
296125029|Heterodoxus_spiniger/1-110    V.................................   110
283857381|Bahita_sp./1-117              VTIM..............................   117
259157647|Zelandoperla_fenestrat/1-97   ..................................    97
158346148|Aphaenogaster_senilis/1-107   ..................................   107
91719096|Pseudopallene_ambigua/1-105    ..................................   105
158345972|Pheidole_laselva/1-107        ..................................   107
158829302|Crypticerya_rosae/1-110       ..................................   110
3002649|Nassarius_burchardi/1-91        ..................................    91
57232763|Opisthocosmia_tenius/1-125     VTIMPKDI.........................   125
208479676|Gymnogeophagus_gymnoge/1-110  ..................................   110
306975372|Selenops_sp./1-109            ..................................   109
306975572|Selenops_sp./1-109            ..................................   109
62130944|Diestostemma_stesilea/1-109    ..................................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
166092254|Oxytate_taprobane/1-109
262178738|Selenops_insularis/1-109
262179232|Selenops_micropalpus/1-109
306975186|Selenops_sp./1-109
306975522|Selenops_sp./1-109
306975552|Selenops_sp./1-109
68509559|Progomphus_obscurus/1-124
289536530|Microdipoena_sp./1-91
256387137|Apodacea_sp./1-91
239736579|Dolania_americana/1-123
58199407|Satanoperca_leucosticta/1-110
46562288|Hyboscolex_sp./1-92
281313132|Mastigoproctus_gigante/1-109
58199321|Etroplus_suratensis/1-110
83321182|Lecane_elsa/1-93
158345966|Pheidole_innupta/1-107
6049796|Mediomastus_australiensi/1-99
62899592|Barytelphusa_jacquemont/1-102
122074|Xenopus_laevis/1-136
56089805|Craterocephalus_honoria/1-110
consensus
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logo
166092254|Oxytate_taprobane/1-109
262178738|Selenops_insularis/1-109
262179232|Selenops_micropalpus/1-109
306975186|Selenops_sp./1-109
306975522|Selenops_sp./1-109
306975552|Selenops_sp./1-109
68509559|Progomphus_obscurus/1-124
289536530|Microdipoena_sp./1-91
256387137|Apodacea_sp./1-91
239736579|Dolania_americana/1-123
58199407|Satanoperca_leucosticta/1-110
46562288|Hyboscolex_sp./1-92
281313132|Mastigoproctus_gigante/1-109
58199321|Etroplus_suratensis/1-110
83321182|Lecane_elsa/1-93
158345966|Pheidole_innupta/1-107
6049796|Mediomastus_australiensi/1-99
62899592|Barytelphusa_jacquemont/1-102
122074|Xenopus_laevis/1-136
56089805|Craterocephalus_honoria/1-110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934726|Amorphoscelis_sp./1-96          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLXFQRLVREIAQDFKTDLRFQSSAVXXXQEASEAYLVGL.............  96
255032108|Solen_marginatus/1-136          ..............MARTKQTARK..STGRKAPRKQLATKA.ARKSA..P.A.TGGVKKPY.RYRPGTVALREIRRYQSSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLRAIHAKR  117
188037212|Sepsis_lateralis/1-111          ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPXQRLVREIAQDFKTDLRFQXSAVMALQEASEAYLVXLXEXTNXCAXHXKX  111
259157655|Zelandoperla_fenestrat/1-97      ......................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTNLRFQSSXVMALXEASEAYLVGLFEDTNLCAIHAKR   97
158346156|Messor_julianus/1-107            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREXRRYQKXTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXXTXLCAIXA..  107
209394929|Dendrobaena_clujensis/1-101      .....................RK..STGGKAPRKQLAPKA.ARKSA..P.A.TGGVKKPH.RYRPGPVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDHQ........  101
220980717|Macrobrachium_placidum/1-115   ...................QTARK..STGGKAPXKQLATKA.ARXSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIXKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHAKR  112
194173337|Aoraki_calcarobtusa/1-91         .....................RK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQXASEA...................  91
98374259|Phyllobates_aurotaenia/1-109     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQXASEAYLXGLFEDTNLCAIQAKR  109
306975416|Selenops_sp./1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFXRLVREIAQDFKTDLRFQSSAVMALQXASEAYLVGLFEDTNLCAIHAKR  109
239736603|Pseudiron_centralis/1-117        ................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQXASEAYLVGLXEDTNLCAIXAKR  114
98374301|Phyllobates_bicolor/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQXASEAYLVGLFEDTNLCAIXAKR  109
71726109|Astacopsis_gouldi/1-111           ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQXASEAYLVGLFEDTNLCAIHAKR  110
208479640|Chaetobranchus_flavesc/1-110    ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQXASEAYLVGLFEDTNLCAIHAKR  110
166092246|Philodromus_sp./1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQXASEAYLVGLFEDTNLCAIHAKR  109
157102696|Agabetes_acuductus/1-102         ......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQXASEAYLVGLFEDTNLCA.....  102
240155925|Homodiaetus_anisitsi/1-100       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTDMLIRKLPVQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........  100
149286319|Ditrupa_arietina/1-104           ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKXPH.RYRPGTVAXXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........  104
208479680|Taeniacara_candidi/1-101         ......................................PRKQLXTKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHAKR  101
90184962|Xenophrys_major/1-102             .....................RK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQXFKTDLRFQSSAVMALQ*ASEAYLVGXFEDTNL.......  102
consensus                                   RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQ*ASEAYLVGL*EDT***** ***

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255934726|Amorphoscelis_sp./1-96          ..............................  96
255032108|Solen_marginatus/1-136          VPIMPKDIQLARRIRGERA...........  136
188037212|Sepsis_lateralis/1-111          ..............................  111
259157655|Zelandoperla_fenestrat/1-97     ..............................  97
158346156|Messor_julianus/1-107           ..............................  107
209394929|Dendrobaena_clujensis/1-101     ..............................  101
220980717|Macrobrachium_placidum/1-115    VTI...........................  115
194173337|Aoraki_calcarobtusa/1-91        ..............................  91
98374259|Phyllobates_aurotaenia/1-109     ..............................  109
306975416|Selenops_sp./1-109              ..............................  109
239736603|Pseudiron_centralis/1-117       VTI...........................  117
98374301|Phyllobates_bicolor/1-109        ..............................  109
71726109|Astacopsis_gouldi/1-111          V.............................  111
208479640|Chaetobranchus_flavesc/1-110    ..............................  110
166092246|Philodromus_sp./1-109           ..............................  109
157102696|Agabetes_acuductus/1-102        ..............................  102
240155925|Homodiaetus_anisitsi/1-100      ..............................  100
149286319|Ditrupa_arietina/1-104          ..............................  104
208479680|Taeniacara_candidi/1-101        ..............................  101
90184962|Xenophrys_major/1-102            ..............................  102
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
83321190|Monommata_maculata/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEASEAYLXGLFEDTNLCAIHAKR  109
297040748|Callobius_tehama/1-104                    ..............MAXTKQTARK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQXLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGX.............  104
297039158|Alokalliapseudes_macsw/1-107              ...................................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRKLPFQRLVREIAQXFKTDLRFXSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
166092276|Haplothamarus_sp./1-109                   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRXXPFXRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
166092284|Talaus_sp./1-109                          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRXXPFXRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
158345862|Pheidole_amazonica/1-107                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRXQKSTELVIRKLPFQRLVREIAQDFKTDLRFQSSAVTALQEASEAYLVGLFEDTNLCAIHA..  107
158345896|Pheidole_cephalica/1-107                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRXXPFQRLVREIAQDFKTDLRFQXSAVMALQEASEAYLVGLFEDTNXCAIHA..  107
158346054|Pheidole_scrobifera/1-107                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGPVALREIRRYQKSTDRLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346174|Pogonomyrmex_maricopa/1-107               .....................RK..STGCXAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDXKTDLRFQSSAVMALQEASEAYLVGXFEDTNLCAIHA..  107
66864806|Cyphophthalmus_sp./1-109                   .....................RK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNXXAIHAKR  109
162424394|Eufallia_seminiveus/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELFIRKLPFQRLVREIAQDFNTDLRFQSSAVMALQEASEAYFVGLFEDTNLCAIHAKR  109
91719040|Pycnogonum_stearnsi/1-108                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIXNLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAPLVGLFEDTNLCAIHAK.  108
297040758|Callobius_paynei/1-108                   ..............MARTKQTARK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRXLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDT........  108
98374185|Ameerega_hahneli/1-109                    .....................RK..STGGKAPRKQLATXA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTXLCAIHAKR  109
90184968|Ophryophryne_hansi/1-109                   .....................RK..STGGKAPXKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKR  109
90184814|Cryptobranchus_allegani/1-109               .....................RK..STGGKAPRKQLATKA.XRKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMAXXEASEAYLVGLFEDTNLCAIHAKR  109
194173311|Rakaia_media/1-109                        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAXDFKTDLRFQSSAXMALQEASEAXLVGLFEDTNLCAIHAKR  109
109159064|Cheilopogon_melanurus/1-110               ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALGEIRRHQKSTELPIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
289536566|Symphytognatha_sp./1-109                  .....................RK..STGGKAPRKQLATKA.ARKGA..P.A.TGGVKKPH.RYRPGTVALREIRXYQKSTELLIRKLPFQRLXREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
37543517|Squamigera_latebricola/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.X.TGGVKKPH.RYRPGTXALREIRRYQKSTELLIXKLPFQRLVREIAQDFKTDLRFQSSAVMALXEASEAYLVGLFEDTNLCAIHAKR  109
consensus                                           RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA**
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logo

83321190|Monommata_maculata/1-109                  ..............................  109
297040748|Callobius_tehama/1-104                   ..............................  104
297039158|Alokalliapseudes_macsw/1-107             VT............................  107
166092276|Haplothamarus_sp./1-109                  ..............................  109
166092284|Talaus_sp./1-109                         ..............................  109
158345862|Pheidole_amazonica/1-107                 ..............................  107
158345896|Pheidole_cephalica/1-107                 ..............................  107
158346054|Pheidole_scrobifera/1-107                ..............................  107
158346174|Pogonomyrmex_maricopa/1-107              ..............................  107
66864806|Cyphophthalmus_sp./1-109                  ..............................  109
162424394|Eufallia_seminiveus/1-109                ..............................  109
91719040|Pycnogonum_stearnsi/1-108                 ..............................  108
297040758|Callobius_paynei/1-108                   ..............................  108
98374185|Ameerega_hahneli/1-109                    ..............................  109
90184968|Ophryophryne_hansi/1-109                  ..............................  109
90184814|Cryptobranchus_allegani/1-109             ..............................  109
194173311|Rakaia_media/1-109                       ..............................  109
109159064|Cheilopogon_melanurus/1-110              ..............................  110
289536566|Symphytognatha_sp./1-109                 ..............................  109
37543517|Squamigera_latebricola/1-109              ..............................  109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
91719028|Propallene_longiceps/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKVPFQRLVREIGQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
38607228|Epimenia_australis/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGAVSLREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184410|Hemiphractus_helioi/1-109   .......................RK..STGGXAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQXFKTXLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086772|Steatoda_bipunctata/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELVIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEDSEAYLVGLFEDTNLCAMHAKR   109
4883743|Pauropodinae_gen./1-109      .......................RK..STGGKAPRKQLATKA.GRKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLXFQSSAVMALQEXSEAYLVGLFEDTNLCAIHAKR   109
62130990|Cuerna_sayi/1-109           .......................RK..STGGXAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALRXIRRYQKSTELLIRKXPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
194173307|Rakaia_n./1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTXLLIRKLPFQRXVREIAQDFKTXLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
37788203|Urodasys_sp./1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKAPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98365355|Neopurcellia_salmoni/1-109  .......................RK..STGGXAPRKQLATKA.ARKSA..P.A.TGGVKXPH.RYRPGTVALREIRRYQXSTELLIRKLPFQRLVREIAXDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91719064|Anoplodactylus_portus/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVAFREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDFRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKX   109
109159090|Draconetta_xenica/1-110   ......................ARK..XTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPXTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSXAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
90184476|Pseudopaludicola_falcip/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRXQXSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYXVGLFEDTNLCAIHAKR   109
40796015|Halicryptus_spinulosus/1-109 .......................RK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSXELLIRKLPFQRLVREIAQDFKTDLXFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
220980703|Macrobrachium_malcolms/1-115 ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRXVREIXQDFKTDLRFQSSXVMALQEASEAYLVGLFEDTNLCAIHAKR   112
98374279|Ranitomeya_minuta/1-109     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVXKPH.RYRPGTXALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAXMALQEASEAYLVGLFEDTNLCAIHAKR   109
262068509|Bathyphantes_gracilis/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RXRPGTVALREIRRYQKSTELLIRKXPFQRLVREIAQDFXTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
115960302|Strongylocentrotus_pur/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLIREIAQDFKTELRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR   117
1870700|Psammechinus_miliaris/1-111  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLIREIAQDFKTELRFQSSAVLALQEASEAYLVGLFEDTNLC......   111
109159295|Terapon_jarbua/1-110       ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRXGAVALREIRRYQKSTELXIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
56089826|Mugil_cephalus/1-110        ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRNLPFXRLVSEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
consensus                            RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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91719028|Propallene_longiceps/1-109   ..............................   109
38607228|Epimenia_australis/1-109    ..............................   109
90184410|Hemiphractus_helioi/1-109   ..............................   109
33086772|Steatoda_bipunctata/1-109   ..............................   109
4883743|Pauropodinae_gen./1-109      ..............................   109
62130990|Cuerna_sayi/1-109           ..............................   109
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37788203|Urodasys_sp./1-109          ..............................   109
98365355|Neopurcellia_salmoni/1-109  ..............................   109
91719064|Anoplodactylus_portus/1-109 ..............................   109
109159090|Draconetta_xenica/1-110    ..............................   110
90184476|Pseudopaludicola_falcip/1-109 ............................   109
40796015|Halicryptus_spinulosus/1-109 ............................   109
220980703|Macrobrachium_malcolms/1-115 VTI........................   115
98374279|Ranitomeya_minuta/1-109     ..............................   109
262068509|Bathyphantes_gracilis/1-109 ............................   109
115960302|Strongylocentrotus_pur/1-136 VTIMPKDIQLARRIRGERA........   136
1870700|Psammechinus_miliaris/1-111  ..............................   111
109159295|Terapon_jarbua/1-110       ..............................   110
56089826|Mugil_cephalus/1-110        ..............................   110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609138|Trachipterus_trachypter/1-110   .....................ARK..STGGKAPRKQLATKX.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRXYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
58199411|Tomocichla_asfraci/1-110         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.XYRPGTVALXEIRRYQKSTELLIRKLPFQRLVGEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
50897721|Taurulus_bubalis/1-110           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTXLRFQSSXVMALQEXSEAYLVGLFEDTNLCAIHAKR   110
109159264|Scatophagus_argus/1-110         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIXKLPFQRLVREIAQXFKXDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
70609180|Gazza_sp./1-110                  .....................ARK..STGGKAPRKQLATKA.ARKSA..P.X.TGGVKKPH.RYRPGTVALSEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCXIHAKR   110
157783357|Blastopsocus_lithinus/1-110     .....................RK..STGGKXPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTEXLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNXCAIHAKR   109
109159321|Xiphias_gladius/1-110           .....................ARK..SXGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSXAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
56089793|Marosatherina_ladigesi/1-110     .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVAXREIRRYQKSTELLIPKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
239736587|Tricorythodes_sp./1-111         ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TXGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSADXALQEASEAYLVGLFEDTNLCAIHAKR   111
57336936|Actinoposthia_beklemisc/1-119   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAIMALQEASESYLVGLFEDTNLCAIHAKR   117
57336938|Philocelis_karlingi/1-113        ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAIMALQEASESYLVSLFEDTNLCANHA..   113
57336924|Childia_crassum/1-113            ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAIMALQEASESYLVSLFEDTXLCAILE..   113
57336916|Childia_macroposthium/1-117      ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAIMALQEASESYLVSLFEDTNLCAIHAKR   115
57336922|Childia_groenlandica/1-117       ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAIMALQEASESYLVSLFEDTNLCAIHAKR   115
57336926|Childia_submaculatum/1-117       ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAIMALQEASESYLVSLFEDTNLCAIHAKR   115
57336928|Childia_trianguliferum/1-117     ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAIMALQEASESYLVSLFEDTNLCAIHAKR   115
57336930|Childia_cyclopposthium/1-117     ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAIMALQEASESYLVSLFEDTNLCAIHAKR   115
57336918|Childia_brachyposthium/1-110     ......................K..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAIMALQEASESYLVSLFEDTNLCAIHAKR   108
37788197|Convoluta_convoluta/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAIMALQEASESYLVSLFEDTNLCAIHAKR   109
57336920|Childiid_sp./1-93                ...........................PRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAIMALQEASESYLVSLFEDTN........    93
consensus                                                             ARK  STGGKAPRKQLATKA ARKSA  P * TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQS*A*MALQEASE*YLV LFEDTNLCAIHAKR
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logo                                  VT

70609138|Trachipterus_trachypter/1-110   ..............................   110
58199411|Tomocichla_asfraci/1-110        ..............................   110
50897721|Taurulus_bubalis/1-110          ..............................   110
109159264|Scatophagus_argus/1-110        ..............................   110
70609180|Gazza_sp./1-110                 ..............................   110
157783357|Blastopsocus_lithinus/1-110    V.............................   110
109159321|Xiphias_gladius/1-110          ..............................   110
56089793|Marosatherina_ladigesi/1-110    ..............................   110
239736587|Tricorythodes_sp./1-111        ..............................   111
57336936|Actinoposthia_beklemisc/1-119   VT............................   119
57336938|Philocelis_karlingi/1-113       ..............................   113
57336924|Childia_crassum/1-113           ..............................   113
57336916|Childia_macroposthium/1-117     VT............................   117
57336922|Childia_groenlandica/1-117      VT............................   117
57336926|Childia_submaculatum/1-117      VT............................   117
57336928|Childia_trianguliferum/1-117    VT............................   117
57336930|Childia_cyclopposthium/1-117    VT............................   117
57336918|Childia_brachyposthium/1-110    VT............................   110
37788197|Convoluta_convoluta/1-109       ..............................   109
57336920|Childiid_sp./1-93               ..............................    93
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
256387119|Symsagittifera_roscoff/1-92      ...............................GGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAIMALQEASESYLVSL.............. 92
57336932|Mecynostomum_auritum/1-111        ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAIMALQEASESYLVSLFEDTNLCAI.... 111
306975332|Selenops_aissus/1-109            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKXDLRFQSSAVXALQEASEAYLVGLFEDTNLCAIHAKR 109
306975326|Selenops_aissus/1-101            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKXDLRFQSSAVMALQEASEAYLVGLYEDTN........ 101
158345856|Pheidole_absurda/1-107           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKXDLRFQSSAVMALQEASEAYLVGLFXDTNLCAIHA.. 107
148372453|Ostracoberyx_dorygenys/1-110     .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKXDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
262179120|Selenops_mexicanus/1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKXDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
306975366|Selenops_aissus/1-96             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKXDLRFQSSAVMALQEASEAYLVGL.............. 96
306975324|Selenops_aissus/1-95             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKXDLRFQSSAVMALQEASEAYLVG.............. 95
83321196|Notommata_allantois/1-96          .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRRLPFQRLVREIAQDFKTDLRFQSSAVAALQEASEAYLVGLF............. 96
83655582|Eothinia_elongata/1-96            ...........................................ATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRRLPFQRLVREIAQDFKTDLRFQSSAVAALQEASEAYLVGLFEDTNLCAIHAKR 96
83321206|Proales_reinhardti/1-104           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKAPFQRLVREIAQDFKTDLRFQSSAVAALQEASEAYLVGLFEDTNLCA..... 104
82622137|Novocrania_anomala/1-109           ......................SK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVXALQEASEAYLVGLFEDTNLCAIHAKR 109
256387133|Phoronis_hippocrepia/1-92        ........................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVXALQEASEAYLVGL.............. 92
37788221|Cephalodella_gibba/1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEASEAYLVGLFEDTNLCAIHAKR 109
37788223|Notholca_acuminata/1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEASEAYLVGLFEDTNLCAIHAKR 109
37788225|Lepadella_patella/1-109            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEASEAYLVGLFEDTNLCAIHAKR 109
83321186|Lepadella_rhomboides/1-109         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEASEAYLVGLFEDTNLCAIHAKR 109
83321198|Plationus_patulus/1-109            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEASEAYLVGLFEDTNLCAIHAKR 109
83321208|Scaridium_longicaudum/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEASEAYLVGLFEDTNLCAIHAKR 109
consensus                                                        *K  STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFK*DLRFQSSAV.ALQEASEAYLVGL************
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logo

256387119|Symsagittifera_roscoff/1-92      ..............................  92
57336932|Mecynostomum_auritum/1-111        ..............................  111
306975332|Selenops_aissus/1-109            ..............................  109
306975326|Selenops_aissus/1-101            ..............................  101
158345856|Pheidole_absurda/1-107           ..............................  107
148372453|Ostracoberyx_dorygenys/1-110     ..............................  110
262179120|Selenops_mexicanus/1-109         ..............................  109
306975366|Selenops_aissus/1-96             ..............................  96
306975324|Selenops_aissus/1-95             ..............................  95
83321196|Notommata_allantois/1-96          ..............................  96
83655582|Eothinia_elongata/1-96            ..............................  96
83321206|Proales_reinhardti/1-104          ..............................  104
82622137|Novocrania_anomala/1-109          ..............................  109
256387133|Phoronis_hippocrepia/1-92        ..............................  92
37788221|Cephalodella_gibba/1-109          ..............................  109
37788223|Notholca_acuminata/1-109          ..............................  109
37788225|Lepadella_patella/1-109           ..............................  109
83321186|Lepadella_rhomboides/1-109        ..............................  109
83321198|Plationus_patulus/1-109           ..............................  109
83321208|Scaridium_longicaudum/1-109       ..............................  109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
83321210|Trichocerca_elongata/1-109
83321212|Trichocerca_rattus/1-109
83321214|Trichotria_tetractis/1-109
83321204|Proales_doliaris/1-108
83321180|Lecane_bulla/1-97
83321202|Polyarthra_remata/1-96
83321188|Microcodon_clavus/1-95
83321178|Keratella_quadrata/1-100
83655578|Euchlanis_alata/1-97
156404482|Nematostella_vectensis/1-136
260841499|Branchiostoma_floridae/1-136
291224902|Saccoglossus_kowalevsk/1-136
158346154|Messor_bouvieri/1-107
283857507|Orientus_sp./1-117
55741129|Cyphophthalmus_gordani/1-109
110555684|Papuadytes_melanarius/1-107
157102470|Anodocheilus_exiguus/1-102
90184778|Leptopelis_vermiculatus/1-109
111415374|Echinotheridion_otlum/1-109
158345932|Pheidole_dossena/1-107
consensus
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logo
83321210|Trichocerca_elongata/1-109
83321212|Trichocerca_rattus/1-109
83321214|Trichotria_tetractis/1-109
83321204|Proales_doliaris/1-108
83321180|Lecane_bulla/1-97
83321202|Polyarthra_remata/1-96
83321188|Microcodon_clavus/1-95
83321178|Keratella_quadrata/1-100
83655578|Euchlanis_alata/1-97
156404482|Nematostella_vectensis/1-136
260841499|Branchiostoma_floridae/1-136
291224902|Saccoglossus_kowalevsk/1-136
158346154|Messor_bouvieri/1-107
283857507|Orientus_sp./1-117
55741129|Cyphophthalmus_gordani/1-109
110555684|Papuadytes_melanarius/1-107
157102470|Anodocheilus_exiguus/1-102
90184778|Leptopelis_vermiculatus/1-109
111415374|Echinotheridion_otlum/1-109
158345932|Pheidole_dossena/1-107
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
92110654|Chionista_fluctifraga/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREXRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
92110680|Humilaria_kennerleyi/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALRETRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRXQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
37788195|Meara_stichopi/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASESYLVGLFEDTNLCAIHAKR  109
110645130|Ophiocoma_echinata/1-110  .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  110
110645136|Ophiopholis_aculeata/1-110  .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  110
122079|Acropora_formosa/1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.AAKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  117
92110664|Callithaca_tenerrima/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLVEDTNLCAIHAKR  109
76251788|Antigona_lamellaris/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251786|Venerupis_galactites/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251784|Venerupis_decussatus/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251782|Venerupis_bruguieri/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251780|Paphia_vernicosa/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251778|Paphia_euglypta/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251774|Katelysia_sp./1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251772|Katelysia_sp./1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251770|Katelysia_scalarina/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251768|Katelysia_rhytiphora/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251766|Irus_crenatus/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251764|Eurhomalea_lenticularis/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251762|Gomphina_undulosa/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                                                   RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR

logo

92110654|Chionista_fluctifraga/1-109  ..............................  109
92110680|Humilaria_kennerleyi/1-109  ..............................  109
37788195|Meara_stichopi/1-109  ..............................  109
110645130|Ophiocoma_echinata/1-110  ..............................  110
110645136|Ophiopholis_aculeata/1-110  ..............................  110
122079|Acropora_formosa/1-136  VTIMPKDIQLARRIRGERA.............  136
92110664|Callithaca_tenerrima/1-109  ..............................  109
76251788|Antigona_lamellaris/1-109  ..............................  109
76251786|Venerupis_galactites/1-109  ..............................  109
76251784|Venerupis_decussatus/1-109  ..............................  109
76251782|Venerupis_bruguieri/1-109  ..............................  109
76251780|Paphia_vernicosa/1-109  ..............................  109
76251778|Paphia_euglypta/1-109  ..............................  109
76251774|Katelysia_sp./1-109  ..............................  109
76251772|Katelysia_sp./1-109  ..............................  109
76251770|Katelysia_scalarina/1-109  ..............................  109
76251768|Katelysia_rhytiphora/1-109  ..............................  109
76251766|Irus_crenatus/1-109  ..............................  109
76251764|Eurhomalea_lenticularis/1-109  ..............................  109
76251762|Gomphina_undulosa/1-109  ..............................  109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 3 2 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 3 2 1
76251760|Megapitaria_squalida/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251758|Macrocallista_nimbosa/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251756|Pitarina_citrina/1-109                       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251754|Pitar_simpsoni/1-109                         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251752|Pitarina_japonica/1-109                      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251750|Pitar_fulminatus/1-109                       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251748|Nutricola_tantilla/1-109                     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251746|Costacallista_impar/1-109                   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251744|Costacallista_lilacina/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251742|Tivela_stultorum/1-109                       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251740|Tivela_mactroides/1-109                     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251738|Pectunculus_exoletus/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251734|Dosinia_sp./1-109                           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251732|Dosinia_victoriae/1-109                     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
38505253|Hiatella_arctica/1-109                       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
38505251|Mya_arenaria/1-109                           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
38505250|Glossus_humanus/1-109                       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
38505248|Corbicula_fluminea/1-109                    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
60543010|Conocephalum_conicum/1-136                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  117
170572149|Brugia_malayi/1-136                        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  117
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR

logo                                                  4 3 2 1                                                 4 3 2 1
76251760|Megapitaria_squalida/1-109                  ..................................      109
76251758|Macrocallista_nimbosa/1-109                 ..................................      109
76251756|Pitarina_citrina/1-109                      ..................................      109
76251754|Pitar_simpsoni/1-109                        ..................................      109
76251752|Pitarina_japonica/1-109                     ..................................      109
76251750|Pitar_fulminatus/1-109                      ..................................      109
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76251746|Costacallista_impar/1-109                   ..................................      109
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76251742|Tivela_stultorum/1-109                      ..................................      109
76251740|Tivela_mactroides/1-109                     ..................................      109
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76251734|Dosinia_sp./1-109                           ..................................      109
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38505250|Glossus_humanus/1-109                       ..................................      109
38505248|Corbicula_fluminea/1-109                    ..................................      109
60543010|Conocephalum_conicum/1-136                  VTIMPKDIQLARRIRGERN...............      136
170572149|Brugia_malayi/1-136                        VTIMPKDIQLARRIRGERA...............      136
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
92110674|Globivenus_isocardia/1-109
92110702|Leukoma_staminea/1-101
157673905|Uloborus_glomosus/1-92
76251790|Periglypta_listeri/1-109
76251792|Venus_verrucosa/1-109
76251794|Anomalocardia_auberiana/1-109
76251796|Chamelea_gallina/1-109
76251798|Mercenaria_mercenaria/1-109
76251800|Circe_nummulina/1-109
76251802|Circe_plicatina/1-109
76251804|Circe_rivularis/1-109
76251806|Circe_cf./1-109
76251808|Gafrarium_tumidum/1-109
76251810|Compsomyax_subdiaphana/1-109
76251812|Gemma_gemma/1-109
76251814|Parastarte_triquetra/1-109
76251816|Petricola_lapicida/1-109
76251818|Petricolaria_pholadifor/1-109
76251820|Turtonia_minuta/1-109
76251822|Glauconome_chinensis/1-109
consensus
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logo
92110674|Globivenus_isocardia/1-109
92110702|Leukoma_staminea/1-101
157673905|Uloborus_glomosus/1-92
76251790|Periglypta_listeri/1-109
76251792|Venus_verrucosa/1-109
76251794|Anomalocardia_auberiana/1-109
76251796|Chamelea_gallina/1-109
76251798|Mercenaria_mercenaria/1-109
76251800|Circe_nummulina/1-109
76251802|Circe_plicatina/1-109
76251804|Circe_rivularis/1-109
76251806|Circe_cf./1-109
76251808|Gafrarium_tumidum/1-109
76251810|Compsomyax_subdiaphana/1-109
76251812|Gemma_gemma/1-109
76251814|Parastarte_triquetra/1-109
76251816|Petricola_lapicida/1-109
76251818|Petricolaria_pholadifor/1-109
76251820|Turtonia_minuta/1-109
76251822|Glauconome_chinensis/1-109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                

76251824|Glaucomone_rugosa/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
76251826|Arctica_islandica/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
76251828|Calyptogena_magnifica/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
82561556|Nerita_funiculata/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110646|Anomalocardia_brasilian/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110650|Callista_chione/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110652|Chione_cancellata/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110660|Clausinella_fasciata/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110662|Clausinella_punctigera/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110670|Dosinia_zelandica/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110676|Globivenus_rugatina/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110678|Globivenus_toreuma/1-109     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110682|Lirophora_mariae/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110686|Mercenaria_campechiensi/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110692|Periglypta_puerpera/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110694|Placamen_berryi/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110696|Placamen_flindersi/1-109     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110698|cf._Ameghinomya/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110700|Protothaca_mcgintyi/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
92110704|Puberella_intapurpurea/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                   RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR

logo

76251824|Glaucomone_rugosa/1-109      ..............................     109
76251826|Arctica_islandica/1-109      ..............................     109
76251828|Calyptogena_magnifica/1-109  ..............................     109
82561556|Nerita_funiculata/1-109      ..............................     109
92110646|Anomalocardia_brasilian/1-109 .............................     109
92110650|Callista_chione/1-109        ..............................     109
92110652|Chione_cancellata/1-109      ..............................     109
92110660|Clausinella_fasciata/1-109   ..............................     109
92110662|Clausinella_punctigera/1-109 ..............................     109
92110670|Dosinia_zelandica/1-109      ..............................     109
92110676|Globivenus_rugatina/1-109    ..............................     109
92110678|Globivenus_toreuma/1-109     ..............................     109
92110682|Lirophora_mariae/1-109       ..............................     109
92110686|Mercenaria_campechiensi/1-109 .............................     109
92110692|Periglypta_puerpera/1-109    ..............................     109
92110694|Placamen_berryi/1-109        ..............................     109
92110696|Placamen_flindersi/1-109     ..............................     109
92110698|cf._Ameghinomya/1-109        ..............................     109
92110700|Protothaca_mcgintyi/1-109    ..............................     109
92110704|Puberella_intapurpurea/1-109 ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
92110708|Tawera_spissa/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
92110712|Timoclea_ovata/1-109                   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
92110714|Timoclea_subnodulosa/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
92110718|Venus_casina/1-109                    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
92110722|Venus_rosalina/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
193783994|Jouannetia_globulosa/1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
193783998|Jouannetia_sp./1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
193784002|Jouannetia_cumingii/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
193784004|Nettastomella_japonica/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
193784006|Parapholas_quadrizonat/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
213556887|Cyclina_sinensis/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
213556889|Meretrix_meretrix/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
213556891|Meretrix_lusoria/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
213556893|Meretrix_lamarckii/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
76251736|Dosinia_sp./1-108                     .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  108
92110684|Macrocallista_squalida/1-108           .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  108
110627820|Helobdella_stagnalis/1-101            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTN........  101
6049801|Lumbricus_terrestris/1-99               ......................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNL.......   99
82622161|Chamelea_striatula/1-109               .....................RK..SXGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
92110656|Chamelea_gallina/1-109                 .....................RK..STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                                       RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR
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logo

92110708|Tawera_spissa/1-109                  ..............................  109
92110712|Timoclea_ovata/1-109                 ..............................  109
92110714|Timoclea_subnodulosa/1-109           ..............................  109
92110718|Venus_casina/1-109                   ..............................  109
92110722|Venus_rosalina/1-109                 ..............................  109
193783994|Jouannetia_globulosa/1-109          ..............................  109
193783998|Jouannetia_sp./1-109                ..............................  109
193784002|Jouannetia_cumingii/1-109           ..............................  109
193784004|Nettastomella_japonica/1-109        ..............................  109
193784006|Parapholas_quadrizonat/1-109        ..............................  109
213556887|Cyclina_sinensis/1-109              ..............................  109
213556889|Meretrix_meretrix/1-109             ..............................  109
213556891|Meretrix_lusoria/1-109              ..............................  109
213556893|Meretrix_lamarckii/1-109            ..............................  109
76251736|Dosinia_sp./1-108                    ..............................  108
92110684|Macrocallista_squalida/1-108         ..............................  108
110627820|Helobdella_stagnalis/1-101          ..............................  101
6049801|Lumbricus_terrestris/1-99             ..............................   99
82622161|Chamelea_striatula/1-109             ..............................  109
92110656|Chamelea_gallina/1-109               ..............................  109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                 4 3 2 1
                                                     MARTKQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVALQEASEAYLVGLFEDTNLCAIHAKR 4 3 2 1
213556895|Meretrix_lyrata/1-109                  .......................RK..STGGKAPRKHLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR   109
38505249|Sphaerium_striatinum/1-96                 ...........................ATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR    96
255934524|Empusa_sp./1-109                        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAXDFKTDLRFQSSAXMALQEASEAYLXGLLEDTNLXAXHAKR   109
50897695|Marukawichthys_ambulato/1-110            ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAXMALQESSEAYLVGLFEDTNLCANHAKR   110
239736599|Cheirogenesia_edmundsi/1-121            ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIXQDFKTDLRFQSSAXMALQEASEAYLVGLFEXTNLCAIHAKR   114
238817449|Drunella_tuberculata/1-96               ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKXPFQRLVREIAQDFKTDLRFQSSAXMALQEASEAYLVG.............    96
257783553|Asolene_spixii/1-108                    ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAXMALQEASEAYLVGLFEDTNLCAIHAKR   108
289536526|Mysmeninae_sp./1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGXKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAXMALQEASEAYLVGLFEDTNLCAIHAKR   109
196481328|Neochoroterpes_nanita/1-117             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRXQSSAXMALQEASEAYLVGLFEDTNLCAIHAKR   117
45545230|Bolbe_sp./1-93                           ...........................A.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAXMALQEASEAYLVGLFEDTNLCAIHAKR    93
164470757|Ciliopagurus_galzini/1-96               ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAXMALQEASEAYL.................    96
150247861|Coptopteryx_sp./1-119                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAXMALQEASEAYLVGLFEDTNLCAIHAKR   117
109159246|Psettodes_belcheri/1-110                ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAXMALQEASEAYLVGLFEDTNLCAIHAKR   110
90184358|Isthmohyla_rivularis/1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAXMALQEASEAYLVGLFEDTNLCAIHAKR   109
289536532|Mysmeninae_sp./1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAXMALQEASEAYLVGLFEDTNLCAIHAKR   109
219923287|Arachnothelphusa_rhada/1-105            ...........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAXMALQEASEAYLVGLFEDTNLCAIHA..   105
195357351|Drosophila_sechellia/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTETLREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
81863473|Cricetulus_longicaudatu/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTWTLREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
119690002|Anelosimus_eximius/1-117                ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVAXREIRRYQKSTELLIRKLPFQRLVREIAQBFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
30140418|Tetrastemma_elegans/1-110                ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVAXREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
consensus                                            *RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSA*MALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                 4 3 2 1
                                                     VTIMPKDIQLARRIRGERA 4 3 2 1
213556895|Meretrix_lyrata/1-109                  ..............................    109
38505249|Sphaerium_striatinum/1-96               ..............................     96
255934524|Empusa_sp./1-109                       ..............................    109
50897695|Marukawichthys_ambulato/1-110           ..............................    110
239736599|Cheirogenesia_edmundsi/1-121           VTIMPKD.......................    121
238817449|Drunella_tuberculata/1-96              ..............................     96
257783553|Asolene_spixii/1-108                   ..............................    108
289536526|Mysmeninae_sp./1-109                   ..............................    109
196481328|Neochoroterpes_nanita/1-117            ..............................    117
45545230|Bolbe_sp./1-93                          ..............................     93
164470757|Ciliopagurus_galzini/1-96              ..............................     96
150247861|Coptopteryx_sp./1-119                  VT............................    119
109159246|Psettodes_belcheri/1-110               ..............................    110
90184358|Isthmohyla_rivularis/1-109              ..............................    109
289536532|Mysmeninae_sp./1-109                   ..............................    109
219923287|Arachnothelphusa_rhada/1-105           ..............................    105
195357351|Drosophila_sechellia/1-136             VTIMPKDIQLARRIRGERA...........    136
81863473|Cricetulus_longicaudatu/1-136           VTIMPKDIQLARRIRGERA...........    136
119690002|Anelosimus_eximius/1-117               VTIM..........................    117
30140418|Tetrastemma_elegans/1-110               ..............................    110
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
262179082|Selenops_lindborgi/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVAXREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
262179014|Selenops_lindborgi/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVXXREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934594|Phyllovates_cingulata/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVXLREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
283857549|Stymphalus_rubrolineat/1-117 ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKXPH.RYRPGTVALREIRRYQKSTELLXRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEXTNLCAIHAKR   113
188037186|Nemopoda_nitidula/1-116      ...................KQTARK..STGGKAPRKQXATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFXRLVREIAQDFKTDLRFQSSXVMALQEASEAYLVGLFEDTNLCAIHAKR   113
158345888|Pheidole_caltrop/1-108       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRLGTVALREIRRYQKSTELXIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAG.   108
208479666|Apistogrammoides_pucal/1-110 ....................AXK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELXIRKLPFQRLXREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXHAKR   110
158346172|Myrmica_incompleta/1-107     .....................RK..STGGKAPRKXLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRXLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXA..   107
281323578|Stylocellus_sp./1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRXLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
219923325|Oziothelphusa_ceylonen/1-105 ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRXLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   105
255934706|Hapalopeza_nitens/1-103      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRXLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLC.......   103
109159230|Plagiotremus_sp./1-110       ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELVIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
106896130|Strombus_gibberulus/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELVIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
283857475|Koebelia_grossa/1-117        ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELXIRXLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857469|Hypacostemma_sp./1-117       ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELXIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEXTNLCAIHAKR   113
61677561|Homalopoma_maculosa/1-116    ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELXIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
226597120|Cybaeus_multnoma/1-125       ..............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELXIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
238817437|Crinitella_coheri/1-111      ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELXIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
91719066|Nymphopsis_duodorsospin/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELXIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
282762246|Penestomus_sp./1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELXIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                                    RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTEL*IR*LPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

262179082|Selenops_lindborgi/1-109      ..............................   109
262179014|Selenops_lindborgi/1-109      ..............................   109
255934594|Phyllovates_cingulata/1-109   ..............................   109
283857549|Stymphalus_rubrolineat/1-117 VTIM..........................   117
188037186|Nemopoda_nitidula/1-116      VTI...........................   116
158345888|Pheidole_caltrop/1-108       ..............................   108
208479666|Apistogrammoides_pucal/1-110 ..............................   110
158346172|Myrmica_incompleta/1-107     ..............................   107
281323578|Stylocellus_sp./1-109        ..............................   109
219923325|Oziothelphusa_ceylonen/1-105 ..............................   105
255934706|Hapalopeza_nitens/1-103      ..............................   103
109159230|Plagiotremus_sp./1-110       ..............................   110
106896130|Strombus_gibberulus/1-109    ..............................   109
283857475|Koebelia_grossa/1-117        VTIM..........................   117
283857469|Hypacostemma_sp./1-117       VTIM..........................   117
61677561|Homalopoma_maculosa/1-116     VTIMPKDI......................   116
226597120|Cybaeus_multnoma/1-125       VTIMPKDI......................   125
238817437|Crinitella_coheri/1-111      V.............................   111
91719066|Nymphopsis_duodorsospin/1-109 ..............................   109
282762246|Penestomus_sp./1-109         ..............................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
3002643|Notocrater_houbricki/1-91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
294805067|Spaniocerca_minor/1-96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
259157661|Zelandoperla_fenestrat/1-97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
6049785|Phyllochaetopterus_sp./1-99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
50347016|Chtenopteryx_sicula/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
7522681|Styela_plicata/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
50346992|Graneledone_verrucosa/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
50346994|Thaumeledone_gunteri/1-109                                                                                                                                                                                                                                                                                
50346998|Heteroteuthis_hawaiiens/1-109                                                                                                                                                                                
50347000|Rossia_palpebrosa/1-109                                                                                                                                                
50347002|Sepiola_affinis/1-109                                                                                                                
50347004|Stoloteuthis_leucoptera/1-109                                                                                
50347020|Bathyteuthis_abyssicola/1-109                                                                
209970174|Chtenopteryx_sicula/1-109                                                                
209970176|Chtenopteryx_sp./1-109                                                                
209970202|Berryteuthis_anonychus/1-109                                                                
209970204|Berryteuthis_magister/1-109                                                                
209970178|Bathyteuthis_sp./1-109                                                                
262179236|Selenops_micropalpus/1-109                                                                
257783352|Parascutigera_sp./1-109                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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3002643|Notocrater_houbricki/1-91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
294805067|Spaniocerca_minor/1-96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
259157661|Zelandoperla_fenestrat/1-97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
6049785|Phyllochaetopterus_sp./1-99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
50347016|Chtenopteryx_sicula/1-109                                                                                                                                                                                                                                                                                
7522681|Styela_plicata/1-136                                                                                                                                                                                
50346992|Graneledone_verrucosa/1-109                                                                                                                                                
50346994|Thaumeledone_gunteri/1-109                                                                                                                
50346998|Heteroteuthis_hawaiiens/1-109                                                                                                
50347000|Rossia_palpebrosa/1-109                                                                                                
50347002|Sepiola_affinis/1-109                                                                                                
50347004|Stoloteuthis_leucoptera/1-109                                                                                                
50347020|Bathyteuthis_abyssicola/1-109                                                                                                
209970174|Chtenopteryx_sicula/1-109                                                                                                
209970176|Chtenopteryx_sp./1-109                                                                                                
209970202|Berryteuthis_anonychus/1-109                                                                                                
209970204|Berryteuthis_magister/1-109                                                                                                
209970178|Bathyteuthis_sp./1-109                                                                                                
262179236|Selenops_micropalpus/1-109                                                                                                
257783352|Parascutigera_sp./1-109                                                                                                
consensus
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X	non conserved
X	similar
X	≥ 50% conserved
X	≥ 80% conserved

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91719058|Anoplodactylus_lentus/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEGYLVGLFEDTNLCAIHAKR     109
257783328|Tachythereua_sp./1-109               ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEXYLVGLFXDTNLCAIHAKR     109
150247775|Statilia_maculata/1-125               ...............MARXKQTARK..STGGKAPRKQLXTKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEXYLVGLFEDTNLCAIHAKR     117
90184810|Dicamptodon_tenebrosus/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEXYLVGLFEDTNLCAIHAKR     109
6049795|Euclymene_trinalis/1-99                 ...........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIXRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNL.......      99
255934616|Deiphobe_sp./1-109                    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRXLPFQXLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
196175179|Episcius_bolivianus/1-97              ..........................................TKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQXLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      95
161376186|Antarctoperla_sp./1-122               ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQXLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     116
30725214|Phascolosoma_granulatum/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQXLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
37675326|Phascolosoma_nigrescens/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQXLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
38607196|Lorica_volvox/1-109                    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQXLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR     109
38607168|Lepidochitona_cinerea/1-109            ........................RK..XTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR     109
38607190|Stenoplax_alata/1-109                  ........................RK..FTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR     109
38505229|Lepidopleurus_cajetanus/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR     109
38607162|Leptochiton_asellus/1-109              ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR     109
38607170|Tonicia_lamellosa/1-109                ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR     109
38607172|Tonicella_lineata/1-109                ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR     109
38607174|Chaetopleura_angulata/1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR     109
38607176|Chaetopleura_apiculata/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR     109
38607180|Ischnochiton_elongatus/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR     109
consensus                                       RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQ*LVREIAQDFKTDLRFQSSAVMALQEASE*YLVGLFEDTNLCAIHAKR

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91719058|Anoplodactylus_lentus/1-109          ..............................     109
257783328|Tachythereua_sp./1-109               ..............................     109
150247775|Statilia_maculata/1-125               VTIMPKDI......................     125
90184810|Dicamptodon_tenebrosus/1-109           ..............................     109
6049795|Euclymene_trinalis/1-99                 ..............................      99
255934616|Deiphobe_sp./1-109                    ..............................     109
196175179|Episcius_bolivianus/1-97              VT............................      97
161376186|Antarctoperla_sp./1-122               VTIMPK........................     122
30725214|Phascolosoma_granulatum/1-109          ..............................     109
37675326|Phascolosoma_nigrescens/1-109          ..............................     109
38607196|Lorica_volvox/1-109                    ..............................     109
38607168|Lepidochitona_cinerea/1-109            ..............................     109
38607190|Stenoplax_alata/1-109                  ..............................     109
38505229|Lepidopleurus_cajetanus/1-109          ..............................     109
38607162|Leptochiton_asellus/1-109              ..............................     109
38607170|Tonicia_lamellosa/1-109                ..............................     109
38607172|Tonicella_lineata/1-109                ..............................     109
38607174|Chaetopleura_angulata/1-109            ..............................     109
38607176|Chaetopleura_apiculata/1-109           ..............................     109
38607180|Ischnochiton_elongatus/1-109           ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
38607182|Ischnochiton_comptus/1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
38607184|Ischnochiton_rissoi/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
38607186|Ischnochiton_australis/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
38607192|Callistochiton_antiquus/1-109  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
38607198|Mopalia_muscosa/1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
38607202|Katharina_tunicata/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
38607204|Rhyssoplax_olivacea/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
38607206|Liolophura_japonica/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
38607208|Sypharochiton_pelliserp/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
38607210|Acanthopleura_granulata/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
38607220|Chaetoderma_nitidulum/1-109     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
82561590|Aperostoma_palmeri/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
82622141|Dentalium_inaequicostat/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
83655596|Haplognathia_rosea/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
90184570|Dicamptodon_ensatus/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
110627800|Clymenura_clypeata/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    109
3002633|Ischnochiton_australis/1-91      ............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLF............     91
83655594|Haplognathia_gubbarnoru/1-100   ............................RKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR    100
73761832|Frankliniella_sp./1-109         .......................RK..STGGKAPRKQLATXA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAXDFKTDLRFQSSAVMALQEASEAYLVGLLK.TPTCAPSTPS    108
283857407|Chlorotettix_rugicolli/1-117  ..................KQTARK..STGGKAPRKQLATXA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIXRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
consensus                                                     RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR
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logo

38607182|Ischnochiton_comptus/1-109      ..............................     109
38607184|Ischnochiton_rissoi/1-109       ..............................     109
38607186|Ischnochiton_australis/1-109    ..............................     109
38607192|Callistochiton_antiquus/1-109   ..............................     109
38607198|Mopalia_muscosa/1-109           ..............................     109
38607202|Katharina_tunicata/1-109        ..............................     109
38607204|Rhyssoplax_olivacea/1-109       ..............................     109
38607206|Liolophura_japonica/1-109       ..............................     109
38607208|Sypharochiton_pelliserp/1-109   ..............................     109
38607210|Acanthopleura_granulata/1-109   ..............................     109
38607220|Chaetoderma_nitidulum/1-109     ..............................     109
82561590|Aperostoma_palmeri/1-109        ..............................     109
82622141|Dentalium_inaequicostat/1-109   ..............................     109
83655596|Haplognathia_rosea/1-109        ..............................     109
90184570|Dicamptodon_ensatus/1-109       ..............................     109
110627800|Clymenura_clypeata/1-109       ..............................     109
3002633|Ischnochiton_australis/1-91      ..............................      91
83655594|Haplognathia_gubbarnoru/1-100   ..............................     100
73761832|Frankliniella_sp./1-109         V.............................     109
283857407|Chlorotettix_rugicolli/1-117   VTIM..........................     117
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                        4 ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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logo                                        3 ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
150247767|Oligonicella_scudderi/1-125      .............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIXRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
305691059|Saltonia_incerta/1-114             ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIXRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
109159088|Dinolestes_lewini/1-110           ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIXRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
50897951|Margaritifera_falcata/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIXRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
81158378|Scolopendra_viridis/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIXRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934622|Elmantis_trincomaliae/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIXRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
297039152|Discapseudes_sp./1-107             ............................GGKVPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAXDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     105
90184514|Typhlonectes_natans/1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIXRYQKSTELLIRKLPFQRLVREIAXDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
91065272|Grylloblatta_n./1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAXDFKTDLRFQSSAVXALQEASEAYLVGLFEDTNLCAIHAKR     109
194173317|Rakaia_n./1-109                    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFXRLVREIAXDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
109159106|Eugerres_plumieri/1-110            ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVRXIAXDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
220980721|Macrobrachium_saigonen/1-115       ...................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKXPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAXDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
211855|Gallus_gallus/1-136                  .............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAXDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247847|Angela_sp./1-125                  .............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAXDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
283857363|Acinopterus_acuminatus/1-117       ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAXDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
262179270|Selenops_sp./1-109                 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAXDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975634|Olios_sp./1-109                    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAXDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262179306|Selenops_sp./1-95                  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAXDFKTDLRFQSSAVMALQEASEAYLVG..............     95
157102538|Deronectes_aubei/1-102             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAXDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....     102
consensus                                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREI*RYQKSTELLIRKLPFQRLVREIA*DFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                        4 ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
logo                                        3 ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
logo                                        2 ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
logo                                        1 ]VTIMPKDIQLARRIRGERA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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296784545|Glyptoplax_smithii/1-111          VTI.............................      111
150247767|Oligonicella_scudderi/1-125        VTIMPKDI........................      125
305691059|Saltonia_incerta/1-114             V...............................      114
109159088|Dinolestes_lewini/1-110            ................................      110
50897951|Margaritifera_falcata/1-109         ................................      109
81158378|Scolopendra_viridis/1-109           ................................      109
255934622|Elmantis_trincomaliae/1-109        ................................      109
297039152|Discapseudes_sp./1-107             VT..............................      107
90184514|Typhlonectes_natans/1-109           ................................      109
91065272|Grylloblatta_n./1-109               ................................      109
194173317|Rakaia_n./1-109                    ................................      109
109159106|Eugerres_plumieri/1-110            ................................      110
220980721|Macrobrachium_saigonen/1-115       VTI.............................      115
211855|Gallus_gallus/1-136                   VTIMPKDIQLARRIRGERA.............      136
150247847|Angela_sp./1-125                   VTIMPKDI........................      125
283857363|Acinopterus_acuminatus/1-117       VTIM............................      117
262179270|Selenops_sp./1-109                 ................................      109
306975634|Olios_sp./1-109                    ................................      109
262179306|Selenops_sp./1-95                  ................................       95
157102538|Deronectes_aubei/1-102             ................................      102
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
163638151|Dysdera_nesiotes/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPX.RYRPVTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374121|Allobates_trilineatus/1-109         .....................RK..STGGKAPRKQLATKT.ARKSA..P.A.XGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSXVMALQEASEAYLVGLFEDTNLCAIHAKR   109
58199325|Paretroplus_dambabe/1-110          ....................ARK..SSGGKAPRKQLATKA.ARKSA..S.X.TGGVKKPH.RYXPGTVALREIRRYQKSTELLIRKLPFQRLVSEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
50897765|Zalanthias_kelloggi/1-105          ........................GGKAPRXQLATKA.ARKSA..P.X.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   105
166092304|Stephanopis_sp./1-96              ...............................ATKA.ARKSA..P.A.TGGVKKPH.RXXPGTVALREIRRYQKSTELLIRKLPFXRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    96
58199434|Pelmatochromis_nigrofas/1-110      ....................AXX..STXGKAPRKQLATKA.ARKSX..P.A.XGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCPIHAKR   110
50897795|Parapercis_ramsayi/1-110           ....................ARK..STGGKAPSKQLATKA.PESRL..P.A.TGGVKKPH.RYXPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKQ   110
220980725|Macrobrachium_shokitai/1-115      ...................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.PYRPGTVALREIRXYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
297040942|Callobius_severus/1-123           ...............XRXKQTAXK..STGGKAPRKQLAXKA.ASKSA..P.S.TGGEKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
57232791|Proreus_duruoides/1-125            ...............MAXTKQTARK..XXGGKXPRKQXATKA.XRKXX..P.X.XGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKX   117
2116601|Drosophila_simulans/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSV..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASETYLVGLFEDTNLCAIHAKR   117
38607166|Callochiton_septemvalvi/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVCALQEASESYLVGLFEDTNLCAIHAKR   109
38607200|Plaxiphora_albida/1-109            ......................RK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR   109
50347064|Octopoteuthis_sicula/1-109         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKAH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
50347074|Psychroteuthis_sp./1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKAH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
50347056|Lepidoteuthis_grimaldii/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKAH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKQ   109
57232795|Irdex_sp./1-107                    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXXAXLVGLXED..........   107
83655580|Asplanchnopus_dahlgreni/1-96       ...............................ATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEASEAYLVGLFEDTNLCAIHAKR    96
194173309|Rakaia_sp./1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..X.P.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRXKPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
228551918|Osedax_sp./1-123                  ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQXFKTDLRFQSSAIMALQEASEAYLVGLFEDTNLCAIHAKR   116
consensus                                                          *K  S*GGKAPRKQLATKA ARKSA  P * TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

163638151|Dysdera_nesiotes/1-109          ..................................   109
98374121|Allobates_trilineatus/1-109       ..................................   109
58199325|Paretroplus_dambabe/1-110         ..................................   110
50897765|Zalanthias_kelloggi/1-105         ..................................   105
166092304|Stephanopis_sp./1-96             ..................................    96
58199434|Pelmatochromis_nigrofas/1-110     ..................................   110
50897795|Parapercis_ramsayi/1-110          ..................................   110
220980725|Macrobrachium_shokitai/1-115     VTI...............................   115
297040942|Callobius_severus/1-123          VTXMPKD...........................   123
57232791|Proreus_duruoides/1-125           VTIMPKDI..........................   125
2116601|Drosophila_simulans/1-136          VTIMPKDIQLARRIRGERA...............   136
38607166|Callochiton_septemvalvi/1-109     ..................................   109
38607200|Plaxiphora_albida/1-109           ..................................   109
50347064|Octopoteuthis_sicula/1-109        ..................................   109
50347074|Psychroteuthis_sp./1-109          ..................................   109
50347056|Lepidoteuthis_grimaldii/1-109     ..................................   109
57232795|Irdex_sp./1-107                   ..................................   107
83655580|Asplanchnopus_dahlgreni/1-96      ..................................    96
194173309|Rakaia_sp./1-109                 ..................................   109
228551918|Osedax_sp./1-123                 VTIMPKD...........................   123
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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228551920|Osedax_sp./1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
228551914|Osedax_sp./1-123                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
228551916|Osedax_sp./1-123                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
228551922|Osedax_sp./1-123                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
228551924|Osedax_rubiplumus/1-123                                                                                                                                                                                                                                                                                                                                
228551926|Osedax_frankpressi/1-123                                                                                                                                                                                                                                                                                                                                
228551932|Osedax_sp./1-123                                                                                                                                                                                                                                                                                                                                
228551936|Osedax_sp./1-123                                                                                                                                                                                                                                                                                                                                
228551940|Osedax_sp./1-123                                                                                                                                                                                                                                                                                                                                
228551934|Osedax_roseus/1-119                                                                                                                                                                                                                                                                                                                                
41353897|Poecilasma_inaequilater/1-109                                                                                                                                                                                                                                                                                                                
158633947|Poecilasma_kaempferi/1-109                                                                                                                                                                                                                                                                                                                
300393407|Piseinotecus_sp./1-109                                                                                                                                                                                                                                                                                                                
300393461|Dendronotus_iris/1-109                                                                                                                                                                                                                                                                                                                
150247901|Entelloptera_saussurei/1-125                                                                                                                                                                                                                                                                                                                
265267362|Tenthredinidae_gen./1-109                                                                                                                                                                                                                                                                                                                
92110716|Ameghinomya_antiqua/1-109                                                                                                                                                                                                                                                                                                                
98374345|Dendrobates_truncatus/1-109                                                                                                                                                                                                                                                                                                                
515005|Mus_pahari/1-136                                                                                                                                                                                                                                                                                                                
225713326|Lepeophtheirus_salmoni/1-136                                                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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228551920|Osedax_sp./1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
228551914|Osedax_sp./1-123                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
228551916|Osedax_sp./1-123                                                                                                                                                                                                                                                                                                                                
228551922|Osedax_sp./1-123                                                                                                                                                                                                                                                                                                                                
228551924|Osedax_rubiplumus/1-123                                                                                                                                                                                                                                                                                                                                
228551926|Osedax_frankpressi/1-123                                                                                                                                                                                                                                                                                                                                
228551932|Osedax_sp./1-123                                                                                                                                                                                                                                                                                                                                
228551936|Osedax_sp./1-123                                                                                                                                                                                                                                                                                                                                
228551940|Osedax_sp./1-123                                                                                                                                                                                                                                                                                                                                
228551934|Osedax_roseus/1-119                                                                                                                                                                                                                                                                                                                                
41353897|Poecilasma_inaequilater/1-109                                                                                                                                                                                                                                                                                                                
158633947|Poecilasma_kaempferi/1-109                                                                                                                                                                                                                                                                                                                
300393407|Piseinotecus_sp./1-109                                                                                                                                                                                                                                                                                                                
300393461|Dendronotus_iris/1-109                                                                                                                                                                                                                                                                                                                
150247901|Entelloptera_saussurei/1-125                                                                                                                                                                                                                                                                                                                
265267362|Tenthredinidae_gen./1-109                                                                                                                                                                                                                                                                                                                
92110716|Ameghinomya_antiqua/1-109                                                                                                                                                                                                                                                                                                                
98374345|Dendrobates_truncatus/1-109                                                                                                                                                                                                                                                                                                                
515005|Mus_pahari/1-136                                                                                                                                                                                                                                                                                                                
225713326|Lepeophtheirus_salmoni/1-136                                                                                                                                                                                                                                                                                                                
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
83655592|Gnathostomula_peregrina/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374223|Dendrobates_azureus/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKXH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
50347022|Batoteuthis_skolops/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKXH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157102728|Methles_sp./1-100              ........................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPX.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   100
163638127|Dysdera_alegranzaensis/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPX.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTXLCAIHAKR   109
282762228|Gandanameno_fumosa/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPX.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185006|Afrixalus_fornasini/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPX.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184414|Hypsiboas_boans/1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPX.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
40796011|Scutigerina_weberi/1-109         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPX.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
15986559|Callibaetis_ferrugineus/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPX.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
283857439|Eupelix_cuspidata/1-117         ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPX.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
150247889|Deroplatys_sp./1-125            ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPX.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
68509523|Allenhyphes_flinti/1-95          ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPX.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEA.....................   95
306975632|Heteropoda_venatoria/1-95       ......................................TKA.ARKSA..P.A.TGGXKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   95
294805057|Spaniocerca_acuta/1-96          .....................................ATKA.ARKSA..P.A.TGGXKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   96
166092308|Stephanopis_sp./1-96            .....................................ATKA.ARKSA..P.A.TGGXKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   96
281323568|Stylocellus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGXKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
281323556|Stylocellus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGXKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
281323566|Stylocellus_sp./1-109           .......................RK..STGGKAPRXQLATKA.ARKSA..P.A.TGGXKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
149286450|Theridion_murarium/1-109        .......................RK..STGGKAPRKHLATKA.ARESA..P.A.TGGDKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                                        RK  STGGKAPRKQLATKA ARKSA  P A TGG*KKP  RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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83655592|Gnathostomula_peregrina/1-109   ..............................   109
98374223|Dendrobates_azureus/1-109        ..............................   109
50347022|Batoteuthis_skolops/1-109        ..............................   109
157102728|Methles_sp./1-100               ..............................   100
163638127|Dysdera_alegranzaensis/1-109    ..............................   109
282762228|Gandanameno_fumosa/1-109        ..............................   109
90185006|Afrixalus_fornasini/1-109        ..............................   109
90184414|Hypsiboas_boans/1-109            ..............................   109
40796011|Scutigerina_weberi/1-109         ..............................   109
15986559|Callibaetis_ferrugineus/1-109    ..............................   109
283857439|Eupelix_cuspidata/1-117         VTIM..........................   117
150247889|Deroplatys_sp./1-125            VTIMPKDI......................   125
68509523|Allenhyphes_flinti/1-95          ..............................   95
306975632|Heteropoda_venatoria/1-95       ..............................   95
294805057|Spaniocerca_acuta/1-96          ..............................   96
166092308|Stephanopis_sp./1-96            ..............................   96
281323568|Stylocellus_sp./1-109           ..............................   109
281323556|Stylocellus_sp./1-109           ..............................   109
281323566|Stylocellus_sp./1-109           ..............................   109
149286450|Theridion_murarium/1-109        ..............................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184978|Ctenophryne_geayi/1-109                  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYXPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934738|Amantis_tristis/1-98                      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.XYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFE...........    98
194173293|Rakaia_n./1-109                           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.XYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374281|Dendrobates_truncatus/1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.XYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374209|Oophaga_histrionica/1-109                 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.XYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374195|Ameerega_hahneli/1-109                    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.XYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374177|Ranitomeya_ventrimacula/1-109             .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.XYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374169|Adelphobates_castaneoti/1-109             .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.XYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374159|Oophaga_arborea/1-109                     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.XYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374155|Oophaga_lehmanni/1-109                    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.XYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157102622|Prodaticus_pictus/1-102                  ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RXRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
90184432|Edalorhina_perezi/1-109                   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RXRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
195116893|Drosophila_mojavensis/1-131              ...............MARTKQTARK..STGGKAPRKQLATKA.A......P.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
125858884|Danio_rerio/1-136                        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RHRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
255934558|Nothogalepsus_sp./1-109                  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296124975|Peripsocus_subfasciatu/1-110             .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGSVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
260815981|Branchiostoma_floridae/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKST..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
195361635|Drosophila_sechellia/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..S.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
306975636|Phoneutria_fera/1-93                     ..........................................A.ARKSA..P.A.TGGVKKTH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    93
73761844|Dorypteryx_domestica/1-110                .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TVGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                          RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH *YRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

90184978|Ctenophryne_geayi/1-109                  ..................................   109
255934738|Amantis_tristis/1-98                    ..................................    98
194173293|Rakaia_n./1-109                         ..................................   109
98374281|Dendrobates_truncatus/1-109              ..................................   109
98374209|Oophaga_histrionica/1-109                ..................................   109
98374195|Ameerega_hahneli/1-109                   ..................................   109
98374177|Ranitomeya_ventrimacula/1-109            ..................................   109
98374169|Adelphobates_castaneoti/1-109            ..................................   109
98374159|Oophaga_arborea/1-109                    ..................................   109
98374155|Oophaga_lehmanni/1-109                   ..................................   109
157102622|Prodaticus_pictus/1-102                 ..................................   102
90184432|Edalorhina_perezi/1-109                  ..................................   109
195116893|Drosophila_mojavensis/1-131             VTIMPKDIQLARRIRGERA...............   131
125858884|Danio_rerio/1-136                       VTIMPKDIQLARRIRGERA...............   136
255934558|Nothogalepsus_sp./1-109                 ..................................   109
296124975|Peripsocus_subfasciatu/1-110            V.................................   110
260815981|Branchiostoma_floridae/1-136            VTIMPKDIQLARRIRGERA...............   136
195361635|Drosophila_sechellia/1-136              VTIMPKDIQLARRIRGERA...............   136
306975636|Phoneutria_fera/1-93                    ..................................    93
73761844|Dorypteryx_domestica/1-110               V.................................   110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
187948563|Pecten_novaezelandiae/1-104     ....................KQTARK..STGGKAPRKQLATKA.ARKTA..E.P.TVGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........   104
56089781|Chilatherina_bleheri/1-110        ......................ARK..STGGKAPRKQLAXKP.ARKSA..X.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
306975480|Selenops_sp./1-97               ......................RK..STGGKAPRKQLATKA.ARKSX..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF...........    97
57232767|Eparchus_biroi/1-125              ...............MARTKQTARK..STGGKAPRKQLAXKA.ARKSA..P.A.XGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
209394905|Lumbricus_castaneus/1-98         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYSPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFE..........    98
150247893|Idolomorpha_dentifrons/1-122     ...............MAXTKDTARK..STGGKAPRNQLATKA.ARKSA..P.A.XGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
264667477|Locusta_migratoria/1-110         ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPY.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
195560369|Drosophila_simulans/1-133        ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKNPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
27923431|Nasutitermes_sp./1-124            ................ARTKQTARK..STGGKAPRNQLATKA.ACKSA..P.A.TGGVKNPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
90184616|Meristogenys_orphnocnem/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGRVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374273|Silverstoneia_flotator/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..X.A.TGGVXKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
194173295|Rakaia_n./1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.LYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
300393413|Armina_sp./1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPP.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
257783545|Marisa_planogyra/1-109           ........................K..STGGKAPRKQLATKA.ARKST..P.A.TGGVKKPP.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
58199413|Astatoreochromis_alluau/1-110     ......................ARX..STGCKXPRKQLGHKA.ARKSA..P.A.TGGVKKPH.RYXPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
4883762|Lychas_marmoreus/1-108             ......................RK..STGGKAPRKQLATKA.ARESA..P.A.TGGVEKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.    108
239736577|Behningia_sp./1-112              ......................ARX..STGGKAPRKXLATKA.ARKSA..P.A.TGGVXKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
148372461|Parapercis_allporti/1-110        ......................ARK..STGGKAPSKQLATKA.AGKSA..P.A.TGGVKKPH.RYXPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
209970226|Eucleoteuthis_luminosa/1-109     ......................RK..STGGKAPXKQLATKA.ARKSA..P.C.HRGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934696|Metilia_boliviana/1-109          ......................RK..STGGKAPRKQLATKA.ARKSX..P.X.TGGVXKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                                     *RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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187948563|Pecten_novaezelandiae/1-104     ..............................   104
56089781|Chilatherina_bleheri/1-110        ..............................   110
306975480|Selenops_sp./1-97                ..............................    97
57232767|Eparchus_biroi/1-125              VTIMPKDI......................   125
209394905|Lumbricus_castaneus/1-98         ..............................    98
150247893|Idolomorpha_dentifrons/1-122     VTIMP........................   122
264667477|Locusta_migratoria/1-110         ..............................   110
195560369|Drosophila_simulans/1-133        VTIMPKDIQLARRIRGERA..........   133
27923431|Nasutitermes_sp./1-124            VTIMPKDI......................   124
90184616|Meristogenys_orphnocnem/1-109     ..............................   109
98374273|Silverstoneia_flotator/1-109      ..............................   109
194173295|Rakaia_n./1-109                  ..............................   109
300393413|Armina_sp./1-109                 ..............................   109
257783545|Marisa_planogyra/1-109           V.............................   109
58199413|Astatoreochromis_alluau/1-110     ..............................   110
4883762|Lychas_marmoreus/1-108             ..............................   108
239736577|Behningia_sp./1-112              VT............................   112
148372461|Parapercis_allporti/1-110        ..............................   110
209970226|Eucleoteuthis_luminosa/1-109     ..............................   109
255934696|Metilia_boliviana/1-109          ..............................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
209970242|Moroteuthis_robusta/1-109     .......................RK..STGGKAPRKQLATKA.ARKSA..P.C.HRQVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
209970212|Chiroteuthis_calyx/1-91      ...........................................RKSA..P.A.TGGSEEAH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    91
110555271|Cesonia_sp./1-107            .......................RK..STGGKAPXRXLATKA.XRKSA..P.A.TXGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
3002621|Cancellaria_undulata/1-91      ............................KAPRKQLATKA.ARKXX..X.X.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............    91
297040816|Callobius_severus/1-112      ........................X..SXGGKAPRKQLGXAX.AGKSX..P.X.XGXXKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
119690030|Anelosimus_pacificus/1-118   ..................TKQTAGX..SXGGKAPRKQLATKA.ARKXA..P.X.TGGVKKPH.XYXPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
166092306|Stephanopis_sp./1-96         ...................................ATKX.ARXXA..P.A.TGGXXKPH.RXXPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    96
156324164|Nematostella_vectensis/1-93  ..............................................................PGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    74
289190089|Osedax_sp./1-123             ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIMALQEASEAYLVGLFEDTNLCAIHAKR   116
228551912|Osedax_sp./1-123             ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
194398801|Echinoderes_collinae/1-116   .......................RK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
58199339|Paretroplus_menarambo/1-110   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
37788199|Myzostoma_cirriferum/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
82622167|Creseis_sp./1-109             .......................RK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
163638135|Dysdera_nesiotes/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
297039146|Apseudes_bermudeus/1-107     ............................GGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   105
297039148|Apseudopsis_olimpiae/1-107   ............................GGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   105
297039154|Hoplomachus_propinquus/1-107 ............................GGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   105
119690016|Anelosimus_nr./1-117         ...................KQTARK..STGGKAPRKQVATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTEXLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFKDTNLCAIHAKR   113
283857413|Colladonus_lineatus/1-117    ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTEXLXRKLPFQRLVREIAQDFKTXLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
consensus                                                  **  **GGKAPRKQLATKA ARKSA  P * TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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209970242|Moroteuthis_robusta/1-109     ..................................   109
209970212|Chiroteuthis_calyx/1-91      ..................................    91
110555271|Cesonia_sp./1-107            ..................................   107
3002621|Cancellaria_undulata/1-91      ..................................    91
297040816|Callobius_severus/1-112      VTIM..............................   112
119690030|Anelosimus_pacificus/1-118   VTIM..............................   118
166092306|Stephanopis_sp./1-96         ..................................    96
156324164|Nematostella_vectensis/1-93  VTIMPKDIQLARRIRGERA..............    93
289190089|Osedax_sp./1-123             VTIMPKD...........................   123
228551912|Osedax_sp./1-123             VTIMPKD...........................   123
194398801|Echinoderes_collinae/1-116   VTIMPKD...........................   116
58199339|Paretroplus_menarambo/1-110   ..................................   110
37788199|Myzostoma_cirriferum/1-109    ..................................   109
82622167|Creseis_sp./1-109             ..................................   109
163638135|Dysdera_nesiotes/1-109       ..................................   109
297039146|Apseudes_bermudeus/1-107     VT................................   107
297039148|Apseudopsis_olimpiae/1-107   VT................................   107
297039154|Hoplomachus_propinquus/1-107 VT................................   107
119690016|Anelosimus_nr./1-117         VTIM..............................   117
283857413|Colladonus_lineatus/1-117    VTIM..............................   117
consensus                              **
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
239736609|Spinirythus_sp./1-123          ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKXPFQRLVREXAQDXKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
57232793|Cranopygia_ophthalmica/1-125   ...............MARTKQTARK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREXAQDFKTDLRFQSSAVMALQEASEXYLVGLFEDTNLCAIHAKR    117
158346068|Pheidole_sospes/1-107          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTEFLIRKLPFQRLVREIAQDFKTDLRFQXSAVMALQEASEAYLVGLFEDTNLCAIHA..    107
188037202|Sepsis_cynipsea/1-119          ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKXH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQXSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
283857419|Dalbulus_gelbus/1-117          ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQXSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
282762252|Stegodyphus_lineatus/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQXSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
4883736|Craterostigmus_tasmanian/1-105  ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQXSAVMALQEASEAYLVGLFEDTNLCAIHA..    105
158829355|Icerya_aegyptiaca/1-110        ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTEFLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASKAYLVGLFEDTNLCAIHAKR    110
158829357|Icerya_aegyptiaca/1-110        ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTEXLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASKAYLVGLFEDTNLCAIHAKR    110
160279861|Clavus_canalicularis/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASKAYLVGLFEDTNLCAIHAKR    109
4883739|Lithobius_obscurus/1-105        ........................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTEFLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKG    105
4883748|Archisotoma_sp./1-109            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTEFLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
163638181|Dysdera_brevispina/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTEMLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
283857449|Excultanus_conus/1-117         ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTEXLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKX    113
283857367|Adama_(Paracostemma)/1-117    ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTEXLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
282762236|Hersiliola_macullulata/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTEXLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
219524061|Gramastacus_insolitus/1-102   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASDVVYLVGLXEDTNL.......    102
306975500|Selenops_sp./1-109             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFXRLVREIAQDFKTDLRFQSSAVMALQEASXAYLVGLFEDTNLCAIHAKR    109
158345948|Pheidole_furtiva/1-107         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASXAPLVGLFEXPNLXAIHA..    107
283857453|Flexamia_areolata/1-117        ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASXAYLVGLFEDTNLCAIHAKR    113
consensus                                                         RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTE*LIRKLPFQRLVREIAQDFKTDLRFQ*SAVMALQEAS*AYLVGLFEDTNLCAIHAK*
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logo

239736609|Spinirythus_sp./1-123          VTIMPKD.........................    123
57232793|Cranopygia_ophthalmica/1-125    VTIMPKDI........................    125
158346068|Pheidole_sospes/1-107          ................................    107
188037202|Sepsis_cynipsea/1-119          VTI.............................    119
283857419|Dalbulus_gelbus/1-117          VTIM............................    117
282762252|Stegodyphus_lineatus/1-109     ................................    109
4883736|Craterostigmus_tasmanian/1-105   ................................    105
158829355|Icerya_aegyptiaca/1-110        ................................    110
158829357|Icerya_aegyptiaca/1-110        ................................    110
160279861|Clavus_canalicularis/1-109     ................................    109
4883739|Lithobius_obscurus/1-105         ................................    105
4883748|Archisotoma_sp./1-109            ................................    109
163638181|Dysdera_brevispina/1-109       ................................    109
283857449|Excultanus_conus/1-117         VTIM............................    117
283857367|Adama_(Paracostemma)/1-117     VTIM............................    117
282762236|Hersiliola_macullulata/1-109   ................................    109
219524061|Gramastacus_insolitus/1-102    ................................    102
306975500|Selenops_sp./1-109             ................................    109
158345948|Pheidole_furtiva/1-107         ................................    107
283857453|Flexamia_areolata/1-117        VTIM............................    117
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857519|Paramesodes_sp./1-116          ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASXAYLVGLFEDTNLCAIHAKR   113
220980707|Macrobrachium_meridion/1-115   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASXAYLVGLFEDTNLCAIHAKR   112
251824722|Calcinus_talismani/1-92        ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASX....................    92
262068551|Tenuiphantes_tenuis/1-107      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRXQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158345998|Pheidole_nitidicollis/1-107    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRXQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
108795504|Lathys_alberta/1-115           ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRXQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
30140420|Tetrastemma_wilsoni/1-110       ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRXQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
90184654|Craugastor_punctariolus/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRXQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98365371|Rakaia_sorenseni/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRXQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
110555796|Papuadytes_sp./1-107           ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRXQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
37788215|Labidognathia_longicoll/1-107   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIXKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHA..   107
91065264|Grylloblatta_gurneyi/1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.X.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIXKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
109159144|Leptobrama_muelleri/1-110      ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLILKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
220980665|Macrobrachium_nr./1-100         ........................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIXKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXDTNLCAIHAKR    97
306975160|Selenops_geraldinae/1-96       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIXKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL.............    96
150247963|Stenopyga_ziela/1-125           ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIXKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
90184470|Pseudacris_crucifer/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIXKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184990|Bufo_maculatus/1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIXKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
306975010|Selenops_simius/1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIXKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
306975204|Selenops_geraldinae/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIXKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                                        RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRR*QKSTELLI*KLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA**

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283857519|Paramesodes_sp./1-116          VTI.............................   116
220980707|Macrobrachium_meridion/1-115   VTI.............................   115
251824722|Calcinus_talismani/1-92        ................................    92
262068551|Tenuiphantes_tenuis/1-107      ................................   107
158345998|Pheidole_nitidicollis/1-107    ................................   107
108795504|Lathys_alberta/1-115           VT..............................   115
30140420|Tetrastemma_wilsoni/1-110       ................................   110
90184654|Craugastor_punctariolus/1-109   ................................   109
98365371|Rakaia_sorenseni/1-109          ................................   109
110555796|Papuadytes_sp./1-107           ................................   107
37788215|Labidognathia_longicoll/1-107   ................................   107
91065264|Grylloblatta_gurneyi/1-109      ................................   109
109159144|Leptobrama_muelleri/1-110      ................................   110
220980665|Macrobrachium_nr./1-100        VTI.............................   100
306975160|Selenops_geraldinae/1-96       ................................    96
150247963|Stenopyga_ziela/1-125           VTIMPKDI.......................   125
90184470|Pseudacris_crucifer/1-109       ................................   109
90184990|Bufo_maculatus/1-109            ................................   109
306975010|Selenops_simius/1-109           ................................   109
306975204|Selenops_geraldinae/1-109       ................................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo

220980695|Macrobrachium_nr./1-115      ....................QTARK..STGGKAPRKQLXTKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQXFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
283857543|Scaphytopius_vaccinium/1-117 ....................KQTARK..STGGKAPRKQLATXA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQXFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
296125015|Stimulopalpus_japonicu/1-110 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQXFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
283857557|Tetartostylus_parabola/1-104 ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQXFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........   104
108795486|Allagelena_gracilens/1-115 ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYXKSTXLLIRKLPFQRLVREIAQXFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
56089823|Cololabis_saira/1-110 .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTXLLIRKLPFQRLVREIAQXFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
283857441|Eusama_amanda/1-117 ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTXLLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKX   113
283857487|Luheria_constricta/1-117 ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTXLLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
81158376|Paralamyctes_validus/1-109 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTXLLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184798|Desmognathus_quadramacu/1-109 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTXLLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98365351|Karripurcellia_harveyi/1-109 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTXLLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
166092260|Thomisus_sp./1-109 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTXLLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
166092274|Monases_sp./1-109 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTXLLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
158346126|Pheidole_tucsonica/1-107 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTXXLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA...   107
50897665|Lepidotrigla_spinosa/1-100 ................................GKQLXTKA.ARKSA..L.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   100
50897634|Scorpaena_plumieri/1-101 ...................PXXXLATXX.ARKXA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   101
106896172|Strombus_luhuanus/1-106 ...........................TGGKAPRKQLATKA.ARRSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRRLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   106
38505230|Acanthochitona_crinita/1-91 ...................................RKSA..P.X.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQTSAVMALQEASESYLVGLFEDTNLCAIHAKR    91
219923303|Cylindrotelphusa_sp./1-94 ...........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAYEAXXXGL.............    94
56089809|Iso_rhothophilus/1-110 .......................ARK..STGGKAPSKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYTQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
consensus                                                 **  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKST*LLIRKLPFQRLVREIAQ*FKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

220980695|Macrobrachium_nr./1-115      VTI.............................    115
283857543|Scaphytopius_vaccinium/1-117 VTIM............................    117
296125015|Stimulopalpus_japonicu/1-110 V...............................    110
283857557|Tetartostylus_parabola/1-104 ...............................    104
108795486|Allagelena_gracilens/1-115   VT..............................    115
56089823|Cololabis_saira/1-110         ...............................    110
283857441|Eusama_amanda/1-117          VTIM...........................    117
283857487|Luheria_constricta/1-117     VTIM...........................    117
81158376|Paralamyctes_validus/1-109    ...............................    109
90184798|Desmognathus_quadramacu/1-109 ...............................    109
98365351|Karripurcellia_harveyi/1-109  ...............................    109
166092260|Thomisus_sp./1-109           ...............................    109
166092274|Monases_sp./1-109            ...............................    109
158346126|Pheidole_tucsonica/1-107     ...............................    107
50897665|Lepidotrigla_spinosa/1-100    ...............................    100
50897634|Scorpaena_plumieri/1-101      ...............................    101
106896172|Strombus_luhuanus/1-106      ...............................    106
38505230|Acanthochitona_crinita/1-91   ................................     91
219923303|Cylindrotelphusa_sp./1-94    ...............................     94
56089809|Iso_rhothophilus/1-110        ...............................    110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199336|Paretroplus_maculatus/1-110      ......................ARK..STGGKAPXKQLATXA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVSEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
238817431|Caurinella_idahoensis/1-112      ......................ARK..STGGKAPRXLATKA.ARXSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKXTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
90184766|Arthroleptis_taeniatus/1-94       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMDLQEASEAWVV.............      94
3002613|Conus_miles/1-91                   ............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAEDFKTDLRFQSSAVMALQEASEAXLVGLF............      91
3002637|Leptopoma_perlucida/1-91           ......................XAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASERYLVGLF............      91
50347044|Gonatus_antarcticus/1-109         ......................RK..STGGKAPRKLATKA.ARKRA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKQ     109
166092266|Cyriogonus_sp./1-109             ......................RK..STGGKAPRKQLATKA.ARXXA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRXVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
196481264|Isothraulus_abditus/1-99         ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIXKLPFQRXVREIAQDFKTDLRFQSSAVMALQEASEA..................      99
58199379|Ptychochromis_sp./1-110           ......................ARK..SXGGKAPRKQLATKA.XRKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
289536500|Mysmena_sp./1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.X.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYXVGXFEDTNLCAIHAKR     109
166092250|Tmarus_angulatus/1-93            ...........................................A.ARKIA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMAXQEASEAYLVGLFEDTNLCAIHAKR      93
223403479|Ambicodamus_marae/1-98           ......................CK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDXKTDLRFQSSAVMALQEASEAYLVXXFE............      98
264667505|Locusta_migratoria/1-110         ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVAFREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYPVGLFEDTNLCAIHAKR     110
262178864|Selenops_sp./1-94                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQDAXEAYLV.............      94
61677525|Phenacolepas_osculans/1-122       ..............MACTKQTARK..SXGGKAPRKQLATKX.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRXVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
224814402|Acrophylla_titan/1-102           ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSXAVMALQEASEAYLVGXFEXXNLC......     102
300393507|Marionia_sp./1-95                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMDRQEASEAYLVG..............      95
240155918|Pareiodon_microps/1-95           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMGLQGASEAYLVG..............      95
50897614|Dactylopterus_volitans/1-108      ......................ARK..STGGKAPSKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHX..     108
163638230|Dysdera_sp./1-109                ......................RK..STGGKAPRKQLVTKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGPFEDTNLCAIHAKR     109
consensus                                  *K  S*GGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVG*************

logo

58199336|Paretroplus_maculatus/1-110      ..............................     110
238817431|Caurinella_idahoensis/1-112     VT............................     112
90184766|Arthroleptis_taeniatus/1-94      ..............................      94
3002613|Conus_miles/1-91                  ..............................      91
3002637|Leptopoma_perlucida/1-91          ..............................      91
50347044|Gonatus_antarcticus/1-109        ..............................     109
166092266|Cyriogonus_sp./1-109            ..............................     109
196481264|Isothraulus_abditus/1-99        ..............................      99
58199379|Ptychochromis_sp./1-110          ..............................     110
289536500|Mysmena_sp./1-109               ..............................     109
166092250|Tmarus_angulatus/1-93           ..............................      93
223403479|Ambicodamus_marae/1-98          ..............................      98
264667505|Locusta_migratoria/1-110        ..............................     110
262178864|Selenops_sp./1-94               ..............................      94
61677525|Phenacolepas_osculans/1-122      VTIMP.........................     122
224814402|Acrophylla_titan/1-102          ..............................     102
300393507|Marionia_sp./1-95               ..............................      95
240155918|Pareiodon_microps/1-95          ..............................      95
50897614|Dactylopterus_volitans/1-108     ..............................     108
163638230|Dysdera_sp./1-109               ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
224814418|Acanthoxyla_geisovii/1-101      ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAYLVGXXXXXN........   101
109159120|Holacanthus_limbaughi/1-110     ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVXALQEASEAYLVGPFEDTXLCAXXAKR   110
289536516|Mysmeninae_sp./1-96            ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAYMALQEASEAYLVGL.............    96
296125027|Liposcelis_bostrychoph/1-110   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAXLVGLFEXTNLCAIHAKR   109
38607212|Acanthochitona_crinita/1-96     ......................................ATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQTSAVMALQEASESYLVGLFEDTNLCAIHAKR    96
239736575|Arthroplea_bipunctata/1-105    ......................................WLATKA.DRKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKR    98
283857459|Goniagnathus_guttuline/1-117   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKXPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGLFEXTNLCAIHAKR   113
158345968|Pheidole_inquilina/1-96        ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDFRFQSSAVMAXQEASEAYLVGL.............    96
71726145|Geothelphusa_sp./1-97           ....................ARK..SXGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDLKTDLRFQSSAVMALQEASEAYLVGL.............    97
196481326|Choroterpes_basalis/1-102      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.X.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDXRFQSSAVMALQEASEAYLV..............   102
259157663|Zelandoperla_decorata/1-98     ......................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPLQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    98
38607238|Rhabdus_rectius/1-109           ....................SK..STGGKAPSKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
109159022|Aeoliscus_strigatus/1-110      ....................ARK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
90185032|Phrynobatrachus_natalen/1-109   ....................RK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
58199309|Lachnolaimus_maximus/1-110      ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
58199387|Apistogramma_sp./1-110           ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
58199397|Crenicichla_alta/1-110          ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
58199418|Etia_nguti/1-110                ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
70609182|Gazza_sp./1-110                 ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
70609184|Gazza_sp./1-110                 ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
consensus                                *RK  STGGKAPRKQLATKA.ARKSA  P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLV*EIAQDFKTDLRFQSSAVMALQEASEAYLVGL*************

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
224814418|Acanthoxyla_geisovii/1-101      ..............................   101
109159120|Holacanthus_limbaughi/1-110     ..............................   110
289536516|Mysmeninae_sp./1-96            ..............................    96
296125027|Liposcelis_bostrychoph/1-110   V.............................   110
38607212|Acanthochitona_crinita/1-96     ..............................    96
239736575|Arthroplea_bipunctata/1-105    VTIMPKD......................   105
283857459|Goniagnathus_guttuline/1-117   VTIM........................   117
158345968|Pheidole_inquilina/1-96        ..............................    96
71726145|Geothelphusa_sp./1-97           ..............................    97
196481326|Choroterpes_basalis/1-102      ..............................   102
259157663|Zelandoperla_decorata/1-98     ..............................    98
38607238|Rhabdus_rectius/1-109           ..............................   109
109159022|Aeoliscus_strigatus/1-110      ..............................   110
90185032|Phrynobatrachus_natalen/1-109   ..............................   109
58199309|Lachnolaimus_maximus/1-110      ..............................   110
58199387|Apistogramma_sp./1-110           ..............................   110
58199397|Crenicichla_alta/1-110          ..............................   110
58199418|Etia_nguti/1-110                ..............................   110
70609182|Gazza_sp./1-110                 ..............................   110
70609184|Gazza_sp./1-110                 ..............................   110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609188|Gazza_sp./1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609194|Gazza_minuta/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609200|Gazza_squamiventralis/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609206|Leiognathus_sp./1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609226|Leiognathus_fasciatus/1-110                                                                                                                                
70609256|Eubleekeria_splendens/1-110                                                                                                                                
70609288|Secutor_sp./1-110                                                                                                                                
70609300|Secutor_megalolepis/1-110                                                                                                                                
70609302|Secutor_cf./1-110                                                                                                                                
109159032|Amblycirrhitus_pinos/1-110                                                                                                                                
109159062|Chaunax_suttkusi/1-110                                                                                                                                
109159254|Rachycentron_canadum/1-110                                                                                                                                
208479660|Guianacara_sp./1-110                                                                                                                                
208479664|Crenicara_punctulatum/1-110                                                                                                                                
98374173|Adelphobates_quinquevit/1-109                                                                                                                                
255934602|Amorphoscelis_sp./1-109                                                                                                                                
306975148|Selenops_debilis/1-109                                                                                                                                
70609232|Leiognathus_fasciatus/1-110                                                                                                                                
109159279|Sphaerichthys_osphrome/1-110                                                                                                                                
208479670|Geophagus_megasema/1-110                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609188|Gazza_sp./1-110                                                                                                                                
70609194|Gazza_minuta/1-110                                                                                                                                
70609200|Gazza_squamiventralis/1-110                                                                                                                                
70609206|Leiognathus_sp./1-110                                                                                                                                
70609226|Leiognathus_fasciatus/1-110                                                                                                                                
70609256|Eubleekeria_splendens/1-110                                                                                                                                
70609288|Secutor_sp./1-110                                                                                                                                
70609300|Secutor_megalolepis/1-110                                                                                                                                
70609302|Secutor_cf./1-110                                                                                                                                
109159032|Amblycirrhitus_pinos/1-110                                                                                                                                
109159062|Chaunax_suttkusi/1-110                                                                                                                                
109159254|Rachycentron_canadum/1-110                                                                                                                                
208479660|Guianacara_sp./1-110                                                                                                                                
208479664|Crenicara_punctulatum/1-110                                                                                                                                
98374173|Adelphobates_quinquevit/1-109                                                                                                                                
255934602|Amorphoscelis_sp./1-109                                                                                                                                
306975148|Selenops_debilis/1-109                                                                                                                                
70609232|Leiognathus_fasciatus/1-110                                                                                                                                
109159279|Sphaerichthys_osphrome/1-110                                                                                                                                
208479670|Geophagus_megasema/1-110                                                                                                                                
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
208479648|Bujurquina_vittata/1-101      ..............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  101
187948523|Semipallium_coruscans/1-100   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQNFKTDLRFQSSAVMALQEASEAYLVGL..............  100
283857465|Hecullus_bracteatus/1-117    ...................KQTARK..STGGXAPRKQXATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTXLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  113
76362293|Conocephalum_conicum/1-103   ...................................RKQLATKA.ARKSA..P.A.TGGVKKPL.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  100
58199399|Dicrossus_sp./1-110           ......................ARK..XTGGKAPRKQLATKA.ARKSA..P.X.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
208479684|Caquetaia_spectabilis/1-101  ..............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALRXIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXDTNLCAIHAKR  101
92110710|Timoclea_levukensis/1-106     ......................RX..SXGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIX...  106
196481240|Leptophlebiidae_sp./1-101    ..............................PRKQLAXKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTXLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  101
219923373|Sundathelphusa_hades/1-105   ............................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVAFREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCXIHA..  105
58081675|Malagasya_goodmani/1-102      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAFMGLQEASEAYLV...............  102
58081627|Potamonautes_lividus/1-102    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAFMALQEASEAYLV...............  102
195356936|Drosophila_sechellia/1-143   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSSELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVSL.EDTTVGH.HAKR  115
224814400|Abrosoma_festinatum/1-102    ..............................APRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTXLLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  102
124488507|Desmopachria_mendozana/1-102 ............................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSXGVMALQEASEAYLVGLFEDTNLCA.....  102
283857497|Neoaliturus_carbonariu/1-117 ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRXVREIAQDXKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKR  113
90185098|Dermophis_oaxacae/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREXAQDFKTDLRFQSSAVMALQEASEAYLVWLFEDTNLCAIHAXR  109
50897612|Aulostomus_maculatus/1-111    ....................ARKS..NLEAKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVSEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
220980679|Macrobrachium_idae/1-115     ...................QTARK..STGGKADXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDXNLCAIHAKX  112
33086766|Rugathodes_sexpunctatus/1-109 ......................RK..STGSKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLNREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184444|Anotheca_spinosa/1-109        ......................RX..STGGKAPRKQLATKA.ARKSA..P.A.XGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHAKR  109
consensus                                                   **  *****APRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL*EDTNLC******

logo
208479648|Bujurquina_vittata/1-101      ..............................  101
187948523|Semipallium_coruscans/1-100   ..............................  100
283857465|Hecullus_bracteatus/1-117    VTIM..........................  117
76362293|Conocephalum_conicum/1-103    VTI...........................  103
58199399|Dicrossus_sp./1-110           ..............................  110
208479684|Caquetaia_spectabilis/1-101  ..............................  101
92110710|Timoclea_levukensis/1-106     ..............................  106
196481240|Leptophlebiidae_sp./1-101    ..............................  101
219923373|Sundathelphusa_hades/1-105   ..............................  105
58081675|Malagasya_goodmani/1-102      ..............................  102
58081627|Potamonautes_lividus/1-102    ..............................  102
195356936|Drosophila_sechellia/1-143   VTIMPKDIQLARRIRGERLKLTGHQLAV.....  143
224814400|Abrosoma_festinatum/1-102    ..............................  102
124488507|Desmopachria_mendozana/1-102 ..............................  102
283857497|Neoaliturus_carbonariu/1-117 VTIM..........................  117
90185098|Dermophis_oaxacae/1-109       ..............................  109
50897612|Aulostomus_maculatus/1-111    ..............................  111
220980679|Macrobrachium_idae/1-115     VTI...........................  115
33086766|Rugathodes_sexpunctatus/1-109 ..............................  109
90184444|Anotheca_spinosa/1-109        ..............................  109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
68509527|Prosopistoma_wouterae/1-103     ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGL.............  103
4883740|Allothereua_maculata/1-106       .......................X..LTGGKAPRKQLATKA.ARKXA..P.A.TGXVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  106
81158408|Allothereua_serrulata/1-106     .......................X..LTGGKAPRKQLATKA.ARKXA..P.A.TGXVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  106
283857505|Opsius_sp./1-117              ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TXGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMAXQEASEAYLVGLFEDTNLCAIHAKR  113
119690026|Anelosimus_oritoyacu/1-117    ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TXGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  113
150247993|Aethalochroa_sp./1-125        ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TXGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
90184820|Bufo_alvarius/1-109            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TXGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
150247765|Cliomantis_obscura/1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMXXQEASEAYLVGLFEDTNLCAIHAKR  117
209970189|Galiteuthis_armata/1-109      ......................RK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMAXQEASEAYLVGLFEDTNLCAIHAKR  109
209970230|Dosidicus_gigas/1-109          ......................RK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMAXQEASEAYLVGLFEDTNLCAIHAKR  109
209970248|Kondakovia_sp./1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMAXQEASEAYLVGLFEDTNLCAIHAKR  109
289536504|Mysmeninae_sp./1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMAXQEASEAYLVGLFEDTNLCAIHAKR  109
283857499|Neohegira_sp./1-100            ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMAXQEASEAYLVGL.............  100
289536522|Trogloneta_sp./1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLXREIXQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
220980719|Macrobrachium_rosenber/1-115  ...................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVXKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIXQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
90184870|Pseudophryne_coriacea/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIXQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
148372431|Synagrops_bellus/1-110         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXXIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
148372433|Synagrops_japonicus/1-110      .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXXIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
50897729|Asprocottus_pulcher/1-110      .....................ARK..STGGKAPRKQLATXA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXXIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
50897699|Cottus_bairdii/1-110            .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXXIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
consensus                                                         *RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMA*QEASEAYLVGLFEDTNLCAIHAKR

logo
68509527|Prosopistoma_wouterae/1-103     ..............................  103
4883740|Allothereua_maculata/1-106       ..............................  106
81158408|Allothereua_serrulata/1-106     ..............................  106
283857505|Opsius_sp./1-117              VTIM..........................  117
119690026|Anelosimus_oritoyacu/1-117    VTIM..........................  117
150247993|Aethalochroa_sp./1-125        VTIMPKDI......................  125
90184820|Bufo_alvarius/1-109            ..............................  109
150247765|Cliomantis_obscura/1-125      VTIMPKDI......................  125
209970189|Galiteuthis_armata/1-109      ..............................  109
209970230|Dosidicus_gigas/1-109         ..............................  109
209970248|Kondakovia_sp./1-109          ..............................  109
289536504|Mysmeninae_sp./1-109          ..............................  109
283857499|Neohegira_sp./1-100           ..............................  100
289536522|Trogloneta_sp./1-109          ..............................  109
220980719|Macrobrachium_rosenber/1-115  VTI...........................  115
90184870|Pseudophryne_coriacea/1-109    ..............................  109
148372431|Synagrops_bellus/1-110        ..............................  110
148372433|Synagrops_japonicus/1-110     ..............................  110
50897729|Asprocottus_pulcher/1-110      ..............................  110
50897699|Cottus_bairdii/1-110           ..............................  110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                 4 ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                     3                                                                                                                                                 3
                                                     2                                                                                                                                                 2
                                                     1                                                                                                                                                 1
50897745|Malacocottus_zonurus/1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXXIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
58199363|Ptychochromoides_betsil/1-110              ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMXLQEASEAYLVELFEDTNLCAIHAKR  110
90185060|Ceratobatrachus_guenthe/1-109              ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMXLQEASEAYLVGLFEDTNLCAIHAKR  109
86372442|Golfingia_elongata/1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVRXIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374249|Colostethus_sp./1-109                      ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVRXIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374251|Colostethus_sp./1-109                      ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVRXIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934752|Hierodula_sp./1-109                       ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVRXIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
281323580|Stylocellus_sp./1-109                     ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVRXIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
308106292|Pantopsalis_sp./1-109                     ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVRXIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
58199403|Pterophyllum_scalare/1-110                 ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTXALREIRRYQKSTELLIRKLPFQRLVRXIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109134674|Psyllidae_sp./1-104                       ....................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYHKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  104
70609190|Gazza_achlamys/1-110                        ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
70609254|Leiognathus_philippinus/1-110               ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
70609264|Photopectoralis_aureus/1-110                ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
70609266|Photopectoralis_bindus/1-110                ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
70609268|Photopectoralis_panayen/1-110               ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159092|Drepane_africana/1-110                    ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159138|Lateolabrax_japonicus/1-110                ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
58199303|Pristolepis_fasciata/1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
70609260|Photopectoralis_sp./1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
consensus                                            *RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVAL*EIRRYQKSTELLIRKLPFQRLV**IAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                 4
                                                     3
                                                     2
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50897745|Malacocottus_zonurus/1-110                  ..................................  110
58199363|Ptychochromoides_betsil/1-110              ..................................  110
90185060|Ceratobatrachus_guenthe/1-109              ..................................  109
86372442|Golfingia_elongata/1-109                   ..................................  109
98374249|Colostethus_sp./1-109                      ..................................  109
98374251|Colostethus_sp./1-109                      ..................................  109
255934752|Hierodula_sp./1-109                       ..................................  109
281323580|Stylocellus_sp./1-109                     ..................................  109
308106292|Pantopsalis_sp./1-109                     ..................................  109
58199403|Pterophyllum_scalare/1-110                 ..................................  110
109134674|Psyllidae_sp./1-104                       ..................................  104
70609190|Gazza_achlamys/1-110                       ..................................  110
70609254|Leiognathus_philippinus/1-110              ..................................  110
70609264|Photopectoralis_aureus/1-110               ..................................  110
70609266|Photopectoralis_bindus/1-110               ..................................  110
70609268|Photopectoralis_panayen/1-110              ..................................  110
109159092|Drepane_africana/1-110                    ..................................  110
109159138|Lateolabrax_japonicus/1-110               ..................................  110
58199303|Pristolepis_fasciata/1-110                 ..................................  110
70609260|Photopectoralis_sp./1-110                  ..................................  110
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
109159038|Arripis_georgianus/1-110          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159287|Stereolepis_gigas/1-110            .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
90184346|Ptychadena_mascareniens/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184884|Telmatobufo_venustus/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184974|Rhacophorus_calcaneus/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
146160752|Megalopsalis_sp./1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
109159268|Scombrolabrax_heterole/1-110        .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLXSEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
58199343|Paretroplus_cf./1-110                .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVSEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
70609186|Gazza_sp./1-110                     .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVSEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
262068549|Stemonyphantes_sibiric/1-107        ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVSEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     107
58199297|Hermosilla_azurea/1-110              .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALSEIRRYQKSTELLIRKLPFQRLVSEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
58199409|Teleocichla_sp./1-110                .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALTEIRRYQKSTELLIRKLPFQRLVSEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
55741137|Cyphophthalmus_minutus/1-109         .....................XK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDXRFQSSAVMALQEASEAYLVXLFEDTNLCAIHAKR     109
109159277|Siganus_vulpinus/1-110              .....................AXK..SXGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRXGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
296125021|Embidopsocus_sp./1-105              .....................RK..STGGKAPRKQLATKA.ASKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDFRFQSSAVMALQEASEAYLVGLFEDTNLCAI....     105
50346990|Benthoctopus_sp./1-106               ........................TGGKAPRKQLATKA.ARKSP..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHAKR     106
225719650|Caligus_clemensi/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVAPREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEGTNLCAIHAKR     117
158324223|Lestes_sp./1-108                    .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMACXEASEAYLVGLFEDTNLCAIHAKR     108
281313146|Pallenopsis_sp./1-106               ........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLXFQSSAVMALQEASEAYLVGLFEDTNLCAIHAXR     106
4883733|Tasmanipatus_barretti/1-106           ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQDLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     106
consensus                                                            *K  STGGKAPRKQLATKA.ARKSA  P A TGGVKKPH.RYRPGTVAL*EIRRYQKSTELLIRKLPFQRLV*EIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo

109159038|Arripis_georgianus/1-110          ..............................     110
109159287|Stereolepis_gigas/1-110            ..............................     110
90184346|Ptychadena_mascareniens/1-109       ..............................     109
90184884|Telmatobufo_venustus/1-109          ..............................     109
90184974|Rhacophorus_calcaneus/1-109         ..............................     109
146160752|Megalopsalis_sp./1-109             ..............................     109
109159268|Scombrolabrax_heterole/1-110       ..............................     110
58199343|Paretroplus_cf./1-110               ..............................     110
70609186|Gazza_sp./1-110                     ..............................     110
262068549|Stemonyphantes_sibiric/1-107       ..............................     107
58199297|Hermosilla_azurea/1-110             ..............................     110
58199409|Teleocichla_sp./1-110               ..............................     110
55741137|Cyphophthalmus_minutus/1-109        ..............................     109
109159277|Siganus_vulpinus/1-110             ..............................     110
296125021|Embidopsocus_sp./1-105             ..............................     105
50346990|Benthoctopus_sp./1-106              ..............................     106
225719650|Caligus_clemensi/1-136             VTIMPKDIQLARRIRGERA...........     136
158324223|Lestes_sp./1-108                   ..............................     108
281313146|Pallenopsis_sp./1-106              ..............................     106
4883733|Tasmanipatus_barretti/1-106          ..............................     106
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
259130749|Prodaticus_vittatus/1-106      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFWTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...   106
158345912|Pheidole_pilifera/1-107        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALXEASEAYLVGLFEDTNLCAIHA..   107
283857547|Stirellus_catalinus/1-102      ..........................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALXEASEAYLVGLFEDTNLCAIHAKR    98
296124957|Sigmatoneura_kakisayap/1-110   .....................XK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREXAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKX   109
157102510|Hoperius_planatus/1-102        ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREXAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
225183549|Rhantus_suturalis/1-107        .....................AK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTIALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
158345868|Pheidole_pilifera/1-107        .....................RK..STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNXCAIHA..   107
208479636|Heterochromis_multiden/1-110   ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHXKR   110
158346180|Brachymyrmex_sp./1-107         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLXFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
50897616|Helicolenus_dactylopter/1-107   ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDXKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIH...   107
262178742|Selenops_insularis/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.XGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
262178792|Selenops_insularis/1-107        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.XGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
262178722|Selenops_insularis/1-105        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.XGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....   105
289536556|Symphytognathidae_sp./1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.X.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
110555269|Orthrus_bicolor/1-101          ...........................APRKQLATKA.ARKSA..P.X.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
158324319|Cordulia_shurtleffii/1-108     ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALPEASEAYLVGLFEDTNLCAIHAKR   108
91719116|Pycnogonum_diceros/1-108        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKTTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   108
91719024|Ammothea_clausi/1-108           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKCTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEATEAYLVGLFEDTNLCAIHAK.   108
91719022|Endeis_mollis/1-108             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLSFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   108
91719072|Anoplodactylus_batangen/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDFRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKG   109
consensus                                                    *K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH**

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259130749|Prodaticus_vittatus/1-106      ..............................   106
158345912|Pheidole_pilifera/1-107        ..............................   107
283857547|Stirellus_catalinus/1-102      VTIM..........................   102
296124957|Sigmatoneura_kakisayap/1-110   V.............................   110
157102510|Hoperius_planatus/1-102        ..............................   102
225183549|Rhantus_suturalis/1-107        ..............................   107
158345868|Pheidole_pilifera/1-107        ..............................   107
208479636|Heterochromis_multiden/1-110   ..............................   110
158346180|Brachymyrmex_sp./1-107         ..............................   107
50897616|Helicolenus_dactylopter/1-107   ..............................   107
262178742|Selenops_insularis/1-109        ..............................   109
262178792|Selenops_insularis/1-107        ..............................   107
262178722|Selenops_insularis/1-105        ..............................   105
289536556|Symphytognathidae_sp./1-109    ..............................   109
110555269|Orthrus_bicolor/1-101          ..............................   101
158324319|Cordulia_shurtleffii/1-108     ..............................   108
91719116|Pycnogonum_diceros/1-108        ..............................   108
91719024|Ammothea_clausi/1-108           ..............................   108
91719022|Endeis_mollis/1-108             ..............................   108
91719072|Anoplodactylus_batangen/1-109   ..............................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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4883746|Campodea_tillyardi/1-108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
91065316|Grylloblatta_chirurgica/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
98365389|Rakaia_sorenseni/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
281323558|Stylocellus_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158345864|Pheidole_ampla/1-107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102476|Bidessus_pumilus/1-102                                                                                                                                                                                                                                                                                                                                                                                                
283857403|Chiasmus_sp./1-117                                                                                                                                                                                
283857533|Platymetopius_obsoletu/1-117                                                                                                                                                
209394955|Lumbricus_castaneus/1-98                                                                                                                                
98374099|Anomaloglossus_baeobatr/1-109                                                                                                                
262178680|Selenops_bifurcatus/1-109                                                                                                
124488527|Hyphydrus_excoffieri/1-102                                                                                
55741141|Cyphophthalmus_rumijae/1-109                                                                
86372478|Phascolosoma_perlucens/1-109                                                
194173303|Rakaia_n./1-109                                                
224814458|Extatosoma_tiaratum/1-109                                                
262178776|Selenops_insularis/1-109                                                
158345996|Pheidole_nitella/1-107                                                
158346008|Pheidole_pilifera/1-107                                                
158633937|Lepas_australis/1-109                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                
4883746|Campodea_tillyardi/1-108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
91065316|Grylloblatta_chirurgica/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
98365389|Rakaia_sorenseni/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
281323558|Stylocellus_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                
158345864|Pheidole_ampla/1-107                                                                                                
157102476|Bidessus_pumilus/1-102                                                                                
283857403|Chiasmus_sp./1-117                                                                                
283857533|Platymetopius_obsoletu/1-117                                                                                
209394955|Lumbricus_castaneus/1-98                                                                                
98374099|Anomaloglossus_baeobatr/1-109                                                                                
262178680|Selenops_bifurcatus/1-109                                                                                
124488527|Hyphydrus_excoffieri/1-102                                                                                
55741141|Cyphophthalmus_rumijae/1-109                                                                                
86372478|Phascolosoma_perlucens/1-109                                                                                
194173303|Rakaia_n./1-109                                                                                
224814458|Extatosoma_tiaratum/1-109                                                                                
262178776|Selenops_insularis/1-109                                                                                
158345996|Pheidole_nitella/1-107                                                                                
158346008|Pheidole_pilifera/1-107                                                                                
158633937|Lepas_australis/1-109                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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259130705|Prodaticus_galla/1-106                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLEREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...   106
30139740|Amphiporus_lactifloreus/1-110             ....................VRK..STGGKAPSKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVGALQEASEAYLVGLFEDTNLCAIHAKR   110
306975096|Selenops_mexicanus/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELXIRKLPFXRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
223403439|Arkys_cornutus/1-109                     .....................RK..SXGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQXSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
113206744|Paragovia_sp./1-109                      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYXPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDXRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
55741139|Cyphophthalmus_ognjenov/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYXPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTXLCAIHAKR   109
90184624|Lepidobatrachus_laevis/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALCEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184500|Petropedetes_palmipes/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLXREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184684|Rana_capito/1-109                         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVNDLQEASEAYLVGLFEDTNLCAIHAKR   109
265267334|Blaberus_atropos/1-109                   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALZEASEAYLVGLFEDTNLCAIHAKR   109
209970218|Grimalditeuthis_bonpla/1-109              .....................RK..STGGKAPSKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRVVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
50347068|Ommastrephes_bartramii/1-109               .....................RK..STGGKAPSKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVVALQEASEAYLVGLFEDTNLCAIHAKR   109
98374297|Colostethus_fraterdanie/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALXEASEAYLVGLLEDTNLCAIHAKR   109
50347032|Discoteuthis_laciniosa/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKQ   109
306975630|Heteropoda_venatoria/1-109               .....................RK..STGGKAPRKQLATKT.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCSIHAKR   109
290750959|Tectura_fenestrata/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLDREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687417|Chilades_putli/1-109                      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEGSEAYLVGLFEDTNLCAIHAKR   109
163638236|Dysdera_sp./1-109                         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMAVQEASEAYLVGLFEDTNLCAIHAKR   109
83655584|Austrognathia_christian/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLVRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR   109
81158382|Scutigerina_malagassa/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALRXIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                           RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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259130705|Prodaticus_galla/1-106                  ..................................   106
30139740|Amphiporus_lactifloreus/1-110             ..................................   110
306975096|Selenops_mexicanus/1-109                 ..................................   109
223403439|Arkys_cornutus/1-109                     ..................................   109
113206744|Paragovia_sp./1-109                      ..................................   109
55741139|Cyphophthalmus_ognjenov/1-109              ..................................   109
90184624|Lepidobatrachus_laevis/1-109               ..................................   109
90184500|Petropedetes_palmipes/1-109                ..................................   109
90184684|Rana_capito/1-109                         ..................................   109
265267334|Blaberus_atropos/1-109                   ..................................   109
209970218|Grimalditeuthis_bonpla/1-109              ..................................   109
50347068|Ommastrephes_bartramii/1-109               ..................................   109
98374297|Colostethus_fraterdanie/1-109              ..................................   109
50347032|Discoteuthis_laciniosa/1-109               ..................................   109
306975630|Heteropoda_venatoria/1-109               ..................................   109
290750959|Tectura_fenestrata/1-109                  ..................................   109
264687417|Chilades_putli/1-109                      ..................................   109
163638236|Dysdera_sp./1-109                         ..................................   109
83655584|Austrognathia_christian/1-109              ..................................   109
81158382|Scutigerina_malagassa/1-109               ..................................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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30725238|Cloeosiphon_aspergillus/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQTSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296125025|Liposcelis_sp./1-110           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALXEASEAYLVGLFEXTNLCAIHAKR   109
264667501|Locusta_migratoria/1-110       ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGAVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVSLFEDTNLCAIHAKR   110
90184458|Mannophryne_trinitatis/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVRXIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHAKR   109
76251776|Paphia_dura/1-109               .......................RK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR   109
38607214|Cryptochiton_stelleri/1-109     .......................RK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASESYLVGLFEDTNLCAIHAKR   109
45545282|Statilia_apicalis/1-109         .......................RK..STGGKAPRKQLATKX..ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAQR   109
166092262|Runcinia_albostriata/1-109     .......................RK..STGGKAPRKQLATKA.ARXSA..P.A.TGGVKKPH.RYRPGTVALREIRRYXKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185078|Xenopus_gilli/1-109             .......................RK..STGGKAPRKQLATKA.ASKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGXFEDTNLCAIHAKR   109
255934656|Otomantis_rendalli/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSXAVMALQEASEAYLVGLFEDTNLCAXXAKR   109
261942213|Dysdera_erythrina/1-109         .......................RK..STGGKAPRKQLATKA.ARKSV..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLLEDTNLCAIHAKR   109
194173315|Rakaia_n./1-109                 .......................RK..STGGKAPRKQLATKA.ARMSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYXVGLFEDTNLCAIHAKR   109
269969453|Epistocavea_mururoa/1-114       ....................QTARX..STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTEXLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
90185000|Kaloula_pulchra/1-109            .......................RX..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQXLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374113|Allobates_femoralis/1-109        .......................RK..STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVXALQEASEAYLVGLFEDTNLCAIHAKR   109
98374343|Dendrobates_truncatus/1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQXSAVMALQEASEAYLVGLXEDTXLCAIHAKR   109
110627804|Ctenodrilus_serratus/1-109     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSWAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279891|Guraleus_sp./1-109              .......................RK..STGGKALRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTEHLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
163638196|Dysdera_fuscipes/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALRVIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHAKR   109
194173291|Rakaia_antipodiana/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRXYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNXCAIHAKR   109
consensus                                                      RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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30725238|Cloeosiphon_aspergillus/1-109   ..............................      109
296125025|Liposcelis_sp./1-110           V.............................      110
264667501|Locusta_migratoria/1-110       ..............................      110
90184458|Mannophryne_trinitatis/1-109    ..............................      109
76251776|Paphia_dura/1-109               ..............................      109
38607214|Cryptochiton_stelleri/1-109     ..............................      109
45545282|Statilia_apicalis/1-109         ..............................      109
166092262|Runcinia_albostriata/1-109     ..............................      109
90185078|Xenopus_gilli/1-109             ..............................      109
255934656|Otomantis_rendalli/1-109       ..............................      109
261942213|Dysdera_erythrina/1-109        ..............................      109
194173315|Rakaia_n./1-109                ..............................      109
269969453|Epistocavea_mururoa/1-114      VT............................      114
90185000|Kaloula_pulchra/1-109           ..............................      109
98374113|Allobates_femoralis/1-109       ..............................      109
98374343|Dendrobates_truncatus/1-109     ..............................      109
110627804|Ctenodrilus_serratus/1-109     ..............................      109
160279891|Guraleus_sp./1-109             ..............................      109
163638196|Dysdera_fuscipes/1-109         ..............................      109
194173291|Rakaia_antipodiana/1-109       ..............................      109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934704|Haania_lobiceps/1-109                  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGXVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVXLFEDTNLCAIHAKR    109
257786672|Uracanthella_punctiset/1-109            .......................RK..STGGKAPRKQLATKA.ARKXA..P.A.TGGVKKPH.RYRPGTVALGEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
262178756|Selenops_insularis/1-109                 .......................RK..STGGKAPRKQXATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFXTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
262179186|Selenops_micropalpus/1-109               .......................RK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREFRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
91719034|Ammothella_appendiculat/1-109             .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLGFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
37788227|Echinorhynchus_gadi/1-109                 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGXVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
262178682|Selenops_bifurcatus/1-109                .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFXRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
262178714|Selenops_insularis/1-109                 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFXRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
306975144|Selenops_bani/1-109                      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFXRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
110645118|Luidia_clathrata/1-110                   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTPLRFQSTAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645120|Luidia_foliolata/1-110                   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTPLRFQSTAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
203285324|Luidia_foliolata/1-110                   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTPLRFQSTAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
261263840|Luidia_foliolata/1-99                    ........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTPLRFQSTAVMALQEASEAYLVGLFEDTNL.......     99
58199357|Paratilapia_cf./1-110                    ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRXGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
81158390|Scutigera_coleoptrata/1-109              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRXGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184690|Rana_muscosa/1-109                       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRXGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
58199301|Polycentropsis_abbrevia/1-110            ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLXFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
86372446|Golfingia_elongata/1-109                 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLXFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
257783342|Parascutigera_guttata/1-109             .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLXFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
109159102|Enoplosus_armatus/1-110                 ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKR    110
consensus                                         RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo

255934704|Haania_lobiceps/1-109                  ..............................     109
257786672|Uracanthella_punctiset/1-109            ..............................     109
262178756|Selenops_insularis/1-109                ..............................     109
262179186|Selenops_micropalpus/1-109              ..............................     109
91719034|Ammothella_appendiculat/1-109            ..............................     109
37788227|Echinorhynchus_gadi/1-109                ..............................     109
262178682|Selenops_bifurcatus/1-109               ..............................     109
262178714|Selenops_insularis/1-109                ..............................     109
306975144|Selenops_bani/1-109                     ..............................     109
110645118|Luidia_clathrata/1-110                  ..............................     110
110645120|Luidia_foliolata/1-110                  ..............................     110
203285324|Luidia_foliolata/1-110                  V.............................     110
261263840|Luidia_foliolata/1-99                   ..............................      99
58199357|Paratilapia_cf./1-110                    ..............................     110
81158390|Scutigera_coleoptrata/1-109              ..............................     109
90184690|Rana_muscosa/1-109                       ..............................     109
58199301|Polycentropsis_abbrevia/1-110            ..............................     110
86372446|Golfingia_elongata/1-109                 ..............................     109
257783342|Parascutigera_guttata/1-109             ..............................     109
109159102|Enoplosus_armatus/1-110                 ..............................     110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                 4 ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                     3                                                                                                                                                 3
                                                     2                                                                                                                                                 2
                                                     1                                                                                                                                                 1
109159305|Triodon_macropterus/1-110                  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALSEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
58199389|Astronotus_ocellatus/1-110                  ......................ARX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALPEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
296125033|Menacanthus_sp./1-110                     ......................-RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVRXIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAXR    109
58199426|Hemichromis_guttatus/1-110                  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRGGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKX    110
264667497|Locusta_migratoria/1-110                  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRSGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
148372449|Lobotes_pacificus/1-110                   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSTVMALQEASEAYLVGLFEDTNLCAIHAKR    110
70609290|Secutor_sp./1-110                          ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLAFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
70609134|Velifer_hypselopterus/1-110                 ......................ARK..STGGKAPRKQLAXKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    110
264667499|Locusta_migratoria/1-110                  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEVSEAYLVGLFEDTNLCAIHAKR    110
264667494|Locusta_migratoria/1-110                  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPRTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
108795492|Badumna_longinqua/1-115                   ...................KHTARK..STGGKAPSKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELFIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
58199391|Chaetobranchopsis_orbic/1-110               ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALLEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
58199442|Tylochromis_pulcher/1-110                  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLTRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
70609222|Leiognathus_equulus/1-110                  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYPKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
109159234|Polymixia_japonica/1-110                  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIVQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
109159142|Mirbelia_candollei/1-110                  ......................AGK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGXVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
283857417|Dagama_forcipata/1-116                    ...................KQTARK..STGGKAPRKXLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRXVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
296125053|Columbicola_passerinae/1-110              ......................-RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFXTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKR    109
57232789|Elaunon_bipartitus/1-125                   ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDXRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
283857473|Kinonia_elongata/1-117                    ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDXRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
consensus                                            ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                 4 VT IMKDI                                 4
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                                                     2                                          2
                                                     1                                          1
109159305|Triodon_macropterus/1-110                  ..............................     110
58199389|Astronotus_ocellatus/1-110                  ..............................     110
296125033|Menacanthus_sp./1-110                      V.............................     110
58199426|Hemichromis_guttatus/1-110                  ..............................     110
264667497|Locusta_migratoria/1-110                   ..............................     110
148372449|Lobotes_pacificus/1-110                    ..............................     110
70609290|Secutor_sp./1-110                           ..............................     110
70609134|Velifer_hypselopterus/1-110                 ..............................     110
264667499|Locusta_migratoria/1-110                   ..............................     110
264667494|Locusta_migratoria/1-110                   ..............................     110
108795492|Badumna_longinqua/1-115                    VT............................     115
58199391|Chaetobranchopsis_orbic/1-110               ..............................     110
58199442|Tylochromis_pulcher/1-110                   ..............................     110
70609222|Leiognathus_equulus/1-110                   ..............................     110
109159234|Polymixia_japonica/1-110                   ..............................     110
109159142|Mirbelia_candollei/1-110                   ..............................     110
283857417|Dagama_forcipata/1-116                     VTI...........................     116
296125053|Columbicola_passerinae/1-110               V.............................     110
57232789|Elaunon_bipartitus/1-125                    VTIMPKDI......................     125
283857473|Kinonia_elongata/1-117                     VTIM..........................     117
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
283857457|Glossocratus_sp./1-117      ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDXRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
306975590|Selenopidae_gen./1-105      ...............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDXRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   105
108795494|Calymmaria_sp./1-115       ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYXVGLFEDTNLCAIHAKR   113
90184594|Chiromantis_doriae/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYXVGLFEDTNLCAIHAKR   109
157102472|Bidessus_calabricus/1-102  ......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYXVGLFEDTNLCA.....   102
6049800|Scoloplos_simplex/1-99      ........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYXVGLFEDTNL.......    99
220980657|Macrobrachium_aff./1-115   ...................QTARK..STGGKAPPKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDXNLCAIHAKR   112
34013738|Caenis_sp./1-115           ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDLKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
283857397|Caranavia_sp./1-116        ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLXRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
73761864|Cerobasis_alpha/1-110      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLXRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374271|Colostethus_pratti/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLXRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
283857501|Nephotettix_modulatus/1-117 ...................KQTARK..STGGKAPRKQLATKA.ARKSA..X.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
306975444|Anyphops_kraussi/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..X.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
297040854|Callobius_sp./1-117        ...................KQTARK..STGGKAPRNQLATKA.ARKSA..P.A.TGGVKKPH.RYRPXTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
239736607|Manohyphella_sp./1-117     ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAKDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKX   110
221136002|Hydra_magnipapillata/1-136 ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQDFKTDLRFQSTAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
221103023|Hydra_magnipapillata/1-146 .....MQSYRVQFIDYGPNKATARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAVMALQEASEAYLVGLFEDTNLCAIHAKR   127
221135652|Hydra_magnipapillata/1-136 ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
221090893|Hydra_magnipapillata/1-136 ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
253584692|Cynortula_granulata/1-109 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                                **RK  STGGKAPRKQLATKA.ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQS*AVMALQEASEAYLVGLFEDTNLCAIHAKR
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283857457|Glossocratus_sp./1-117     VTIX.............................   117
306975590|Selenopidae_gen./1-105     ................................   105
108795494|Calymmaria_sp./1-115       VT...............................   115
90184594|Chiromantis_doriae/1-109    ................................   109
157102472|Bidessus_calabricus/1-102  ................................   102
6049800|Scoloplos_simplex/1-99       ................................    99
220980657|Macrobrachium_aff./1-115   VTI..............................   115
34013738|Caenis_sp./1-115            VTIMP............................   115
283857397|Caranavia_sp./1-116        VTI..............................   116
73761864|Cerobasis_alpha/1-110       V................................   110
98374271|Colostethus_pratti/1-109    ................................   109
283857501|Nephotettix_modulatus/1-117 VTIM............................   117
306975444|Anyphops_kraussi/1-109     ................................   109
297040854|Callobius_sp./1-117        VTIM............................   117
239736607|Manohyphella_sp./1-117     VTIMPKD.........................   117
221136002|Hydra_magnipapillata/1-136 VTIMPKDIQLARRIRGERA.............   136
221103023|Hydra_magnipapillata/1-146 VTIMPKDIQLARRIRGERA.............   146
221135652|Hydra_magnipapillata/1-136 VTIMSKDIQLARRIRGERA.............   136
221090893|Hydra_magnipapillata/1-136 VTIMPKDIQLARRIRGERA.............   136
253584692|Cynortula_granulata/1-109  ................................   109
consensus                            ***
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
68012862|Cephalopholis_leopardus/1-121   ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEXSEAYLVGLFEDTNLCAIHAKR   114
68012930|Cephalopholis_miniata/1-119     ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEXSEAYLVGLFEDTNLCAIHAKR   114
50897667|Pseudogramma_thaumasium/1-110   .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEXSEAYLVGLFEDTNLCAIHAKR   110
109159178|Mola_mola/1-110               .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEXSEAYLVGLFEDTNLCAIHAKR   110
109159315|Uranoscopus_scaber/1-110       .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEXSEAYLVGLFEDTNLCAIHAKR   110
90184608|Occidozyga_baluensis/1-109     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEXSEAYLVGLFEDTNLCAIHAKR   109
166092264|Stephanopis_sp./1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEXSEAYLVGLFEDTNLCAIHAKR   109
306975540|Selenops_phaselus/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEXSEAYLVGLFEDTNLCAIHAKR   109
297040756|Callobius_klamath/1-119        ..................TKQTARK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKXTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
57232765|Chelisoches_annulatus/1-125    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYXKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
108795512|Textrix_denticulata/1-115     ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYXKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
306975142|Selenops_bani/1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYXKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
158345906|Pheidole_cocciphaga/1-107     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYXKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA...   107
150247961|Chloroharpax_modesta/1-125    ..............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKXPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
30140292|Parborlasia_corrugatus/1-110   .......................XRK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKXPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
259157637|Zelandoperla_fenestrat/1-97   ...................................LATKA.ARKSA..P.A.TGGVKXPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    97
226597138|Cybaeus_chauliodous/1-125     ..............XAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFXTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
98365385|Rakaia_healyi/1-109             .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFXTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
262178718|Selenops_insularis/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFXTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
161376170|Sasquaperla_hoopa/1-125        ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
consensus                                                        *RK  STGGKAPRKQLATKA.ARKSA  P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQE*SEAYLVGLFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
68012862|Cephalopholis_leopardus/1-121   VTIMPKG.............................   121
68012930|Cephalopholis_miniata/1-119     VTIMP..............................   119
50897667|Pseudogramma_thaumasium/1-110   ...............................   110
109159178|Mola_mola/1-110                ...............................   110
109159315|Uranoscopus_scaber/1-110       ...............................   110
90184608|Occidozyga_baluensis/1-109      ...............................   109
166092264|Stephanopis_sp./1-109          ...............................   109
306975540|Selenops_phaselus/1-109        ...............................   109
297040756|Callobius_klamath/1-119        VTIMP..............................   119
57232765|Chelisoches_annulatus/1-125     VTIMPKDI...........................   125
108795512|Textrix_denticulata/1-115      VT.................................   115
306975142|Selenops_bani/1-109            ...............................   109
158345906|Pheidole_cocciphaga/1-107      ...............................   107
150247961|Chloroharpax_modesta/1-125     VTIMPKDI...........................   125
30140292|Parborlasia_corrugatus/1-110    ...............................   110
259157637|Zelandoperla_fenestrat/1-97    ................................    97
226597138|Cybaeus_chauliodous/1-125      VTIMPKDI...........................   125
98365385|Rakaia_healyi/1-109             ...............................   109
262178718|Selenops_insularis/1-109       ...............................   109
161376170|Sasquaperla_hoopa/1-125        VTIMPKDI...........................   125
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
225548448|Sphaeroma_sp./1-100                  ....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    98
195368598|Drosophila_sechellia/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQGASEAYLVGLFEDTNLCAIHAKR   117
195366033|Drosophila_sechellia/1-138            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTGLLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
228205188|Campeloma_floridense/1-125            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFHRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
262178866|Selenops_sp./1-93                     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQDASEAYL................    93
163916081|Xenopus_(Silurana)/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQDASEAYLVGLFEDTNLCAIHAKR   117
156357499|Nematostella_vectensis/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPXQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
156602765|Nematostella_vectensis/1-93            ..............................................................PGTVALREIRRYQKSTELLIRKLPXQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    74
195363572|Drosophila_sechellia/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRCYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
83321174|Encentrum_astridae/1-109                ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEASEAYLVGLFEDTNLCAIHAKR   109
83321176|Encentrum_tectipes/1-109                ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEASEAYLVGLFEDTNLCAIHAKR   109
256084843|Schistosoma_mansoni/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEASEAYLVGLFEDTNLCAIHAKR   117
195365592|Drosophila_sechellia/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKCTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
91719026|Nymphon_unguiculatum/1-109              ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKCTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
292615700|Danio_rerio/1-136                      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDQRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
156321367|Nematostella_vectensis/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSLAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
156330249|Nematostella_vectensis/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQKASEAYLVGLFEDTNLCAIHAKR   117
260782577|Branchiostoma_floridae/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRLQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
126309056|Monodelphis_domestica/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLVRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
109504970|Rattus_norvegicus/1-136                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVTALQEASEAYLVGLFEDTNLCAIHAKR   117
consensus                                        ********RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

225548448|Sphaeroma_sp./1-100                  VT.................................   100
195368598|Drosophila_sechellia/1-136            VTIMPKDIQLARRIRGEGA...............   136
195366033|Drosophila_sechellia/1-138            VTIMPKDIQLARRISRRACLS.............   138
228205188|Campeloma_floridense/1-125            VTIMPKDI..........................   125
262178866|Selenops_sp./1-93                     .................................    93
163916081|Xenopus_(Silurana)/1-136              VTIMPKDIQLARRIRGERA...............   136
156357499|Nematostella_vectensis/1-136           VTIMPKDIQLARRIRGERA...............   136
156602765|Nematostella_vectensis/1-93            VTIMPKDIQLARRIRGERA...............    93
195363572|Drosophila_sechellia/1-136             VTIMPKDIQLARRIGGERA...............   136
83321174|Encentrum_astridae/1-109                .................................   109
83321176|Encentrum_tectipes/1-109                .................................   109
256084843|Schistosoma_mansoni/1-136              VTIMPKDIQLARRIRGERA...............   136
195365592|Drosophila_sechellia/1-136             VTIMPKDIQLARRIRGERA...............   136
91719026|Nymphon_unguiculatum/1-109              .................................   109
292615700|Danio_rerio/1-136                      VTIMPKDIQLARRIRGERA...............   136
156321367|Nematostella_vectensis/1-136           VTIMPKDIQLARRIRGERA...............   136
156330249|Nematostella_vectensis/1-136           VTIMPKDIQLARRIRGERA...............   136
260782577|Branchiostoma_floridae/1-136           VTIMPKDIQLARRIRGERA...............   136
126309056|Monodelphis_domestica/1-136            VTIMPKDIQLARRIRGERA...............   136
109504970|Rattus_norvegicus/1-136                VTIMPKDIQLARRIRGERA...............   136
consensus                                        VT****************
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
195363997|Drosophila_sechellia/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
260834274|Branchiostoma_floridae/1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLICKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
283468925|Xenoturbella_bocki/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYRKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
119690034|Anelosimus_rupununi/1-118     ..................TKQTARX..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     114
108795526|Stegodyphus_sp./1-115         ...................KQTARK..XXGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
109159140|Lates_calcarifer/1-110        ......................AXXK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
208479658|Tahuantinsuyoa_macantz/1-110  ......................ARK..XTGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
196481352|Siphlonurus_sp./1-100          ....................................RKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     100
226597132|Cybaeus_thermydrinos/1-125    ...............MAXTKQTARK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
297040738|Callobius_severus/1-124       ...............MAXXKQTARK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
73761866|Selenopsocus_sp./1-110          ......................-RK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
297040876|Callobius_sp./1-124            ...............MAXTKQTARK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
50897767|Gramma_loreto/1-110             ......................ARK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
70609152|Beryx_splendens/1-110           ......................ARK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
90184488|Neobatrachus_sudelli/1-109      ......................RK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184942|Xenopus_(Silurana)/1-109        ......................RK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90185088|Sooglossus_sechellensis/1-109  ......................RK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
220684152|Deinopis_spinosa/1-109         ......................RK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262178660|Selenops_bifurcatus/1-109      ......................RK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262179194|Selenops_micropalpus/1-109    ......................RK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                   *RK  STGGKAPRKQLATKA AXKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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195363997|Drosophila_sechellia/1-136      VTIMPKDIQLARRIRGERA.............     136
260834274|Branchiostoma_floridae/1-136    VTIMPKDIQLARRIRGERA.............     136
283468925|Xenoturbella_bocki/1-136        VTIMPKDIQLARRIRGERA.............     136
119690034|Anelosimus_rupununi/1-118       VTIM............................     118
108795526|Stegodyphus_sp./1-115           VT..............................     115
109159140|Lates_calcarifer/1-110          ................................     110
208479658|Tahuantinsuyoa_macantz/1-110    ................................     110
196481352|Siphlonurus_sp./1-100           ................................     100
226597132|Cybaeus_thermydrinos/1-125      VTXMPKDI........................     125
297040738|Callobius_severus/1-124         VTIMPKD.........................     124
73761866|Selenopsocus_sp./1-110           V...............................     110
297040876|Callobius_sp./1-124             VTIMPKD.........................     124
50897767|Gramma_loreto/1-110              ................................     110
70609152|Beryx_splendens/1-110            ................................     110
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220684152|Deinopis_spinosa/1-109          ................................     109
262178660|Selenops_bifurcatus/1-109       ................................     109
262179194|Selenops_micropalpus/1-109      ................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
282762254|Stegodyphus_mimosarum/1-109      .......................RK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
306975612|Selenops_sp./1-109                 .......................RK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
126165791|Plexippus_paykulli/1-116            ...................KQTARK..STGGKAPRKQLATKA.ARXSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
119690036|Anelosimus_studiosus/1-117          ...................KQTARK..STGGKAPRKQLATKA.ARXSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
119690040|Anelosimus_studiosus/1-118          ..................TKQTARK..STGGKAPRKQLATKA.ARXSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
251824550|Calcinus_lineapropodus/1-99          ......................................QLATKA.ARXSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    98
86372480|Phascolosoma_scolops/1-92             ..........................................ARXSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXHAKR    92
62899608|Dilocarcinus_laevifrons/1-102         ...............MARTKQTARK..STGGKAPRKQLATKA.ARXSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............   102
157102762|Copelatus_nigrolineatu/1-100         ............................GGKAPRKQLATKA.ARXSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   100
82561574|Pomacea_bridgesi/1-91                 ...........................KAPRKQLATKA.ARXSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............    91
294805025|Vesicaperla_dugdalei/1-91            ..............................................NKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    91
294805027|Vesicaperla_celmisia/1-91            ..............................................NKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    91
294805031|Vesicaperla_trilinea/1-91            ..............................................NKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    91
220980693|Macrobrachium_latimanu/1-99          ...............................ATKA.ARKXA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEXTNLXAIHAKR    96
3002597|Austrocochlea_porcata/1-91             ............................KAPRKQLATKA.ARKXA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............    91
3002629|Eulimidae_sp./1-91                     ............................KAPRKQLATKA.ARKXA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............    91
3002641|Montfortula_rugosa/1-91                ............................KAPRKQLATKA.ARKXA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............    91
3002675|Zeacumantus_subcarinatus/1-91          ............................KAPRKQLATKA.ARKXA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............    91
297039136|Pseudoleptochelia_sp./1-107          ............................GGKAPRKQLATKA.ARKXA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   105
283857559|Thamnotettix_confinis/1-117          ...................KQTARK..STGGKAPRKQLATKA.ARKXA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
consensus                                                                                 *******ATKA A***A  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF************

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282762254|Stegodyphus_mimosarum/1-109      .............................     109
306975612|Selenops_sp./1-109                .............................     109
126165791|Plexippus_paykulli/1-116          VTI..........................     116
119690036|Anelosimus_studiosus/1-117        VTIM.........................     117
119690040|Anelosimus_studiosus/1-118        VTIM.........................     118
251824550|Calcinus_lineapropodus/1-99       V............................      99
86372480|Phascolosoma_scolops/1-92          .............................      92
62899608|Dilocarcinus_laevifrons/1-102      .............................     102
157102762|Copelatus_nigrolineatu/1-100      .............................     100
82561574|Pomacea_bridgesi/1-91              .............................      91
294805025|Vesicaperla_dugdalei/1-91         .............................      91
294805027|Vesicaperla_celmisia/1-91         .............................      91
294805031|Vesicaperla_trilinea/1-91         .............................      91
220980693|Macrobrachium_latimanu/1-99       VTI..........................      99
3002597|Austrocochlea_porcata/1-91          .............................      91
3002629|Eulimidae_sp./1-91                  .............................      91
3002641|Montfortula_rugosa/1-91             .............................      91
3002675|Zeacumantus_subcarinatus/1-91       .............................      91
297039136|Pseudoleptochelia_sp./1-107       VT...........................     107
283857559|Thamnotettix_confinis/1-117       VTIM.........................     117
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
306975216|Selenops_geraldinae/1-109      .....................RK..STGGKAPRKQLATKA.ARKXA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
3002663|Perotrochus_midas/1-91            ............................KAPRKQLATKA.ARKSX..X.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............    91
291226322|Saccoglossus_kowalevsk/1-116   ...................................MARTKQTARK.........P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    97
283468921|Xenoturbella_bocki/1-135       ...............MTRTKQTARK..STGGKAPRKQL.RQC.RRKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
161376141|Mesocapnia_sp./1-125           ...............MARTKQTARK..STGGKAPRKQLATKA.ASKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
264667481|Locusta_migratoria/1-110        .......................ARK..STGGKAPRKQLATKA.AGKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
90184612|Chaperina_fusca/1-109           .......................RK..STGGKAPRKQLATKA.ASKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
110627786|Arenicola_marina/1-109          .......................RK..STGGKAPRKQLATKA.ASKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
158345928|Pheidole_diana/1-107            .......................RK..STGGKAPRKQLATKA.ASKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
239736591|Paraleptophlebia_subma/1-109   ................AXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   109
126165787|Onomastus_nigrimaculat/1-113   ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....   113
226597114|Cybaeus_reticulatus/1-125      ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKR   117
297039142|Parapseudes_sp./1-107           ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLFAIHAKR   105
224814494|Leosthenes_sp./1-102            .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLC......   102
224814448|Dryococelus_australis/1-102     .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLC......   102
224814406|Agathemera_sp./1-102            .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLC......   102
158345866|Pheidole_anastasii/1-107        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXA..   107
283857513|Pachytettix_sp./1-112           ..................KQTXRK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAK.   112
228205162|Bellamya_trochlearis/1-99      ............................GGKAPRKQLATKA.SRKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLC......    99
157102638|Iberoporus_cermenius/1-102      ............................SPGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
consensus                                                            **  S*GGKAPRKQLATKA A*KSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLC** **

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306975216|Selenops_geraldinae/1-109      ..................................    109
3002663|Perotrochus_midas/1-91            ..................................     91
291226322|Saccoglossus_kowalevsk/1-116   VTIMPKDIQLARRIRGERA..............    116
283468921|Xenoturbella_bocki/1-135       VTIMPKDIQLARRIRGERA..............    135
161376141|Mesocapnia_sp./1-125           VTIMPKDI........................    125
264667481|Locusta_migratoria/1-110        ..................................    110
90184612|Chaperina_fusca/1-109           ..................................    109
110627786|Arenicola_marina/1-109          ..................................    109
158345928|Pheidole_diana/1-107            ..................................    107
239736591|Paraleptophlebia_subma/1-109    ..................................    109
126165787|Onomastus_nigrimaculat/1-113    ..................................    113
226597114|Cybaeus_reticulatus/1-125       VTXMPKDI........................    125
297039142|Parapseudes_sp./1-107           VT..............................    107
224814494|Leosthenes_sp./1-102            ..................................    102
224814448|Dryococelus_australis/1-102     ..................................    102
224814406|Agathemera_sp./1-102            ..................................    102
158345866|Pheidole_anastasii/1-107        ..................................    107
283857513|Pachytettix_sp./1-112           ..................................    112
228205162|Bellamya_trochlearis/1-99       ..................................     99
157102638|Iberoporus_cermenius/1-102      ..................................    102
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102632|Notaticus_fasciatus/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXDTNLCA.....   102
157102544|Deronectes_moestus/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXDTNLCA.....   102
124488535|Hyphydrus_sp./1-102       ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXDTNLCA.....   102
109159104|Erythrocles_monodi/1-110   .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXHAKR   110
4883751|Petrobiinae_gen./1-108      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCANHAKL   108
239579931|Palaeoncopus_gunung/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXHAKR   109
239579919|Caenoncopus_affinis/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXHAKR   109
239579911|Gnomulus_javanicus/1-109  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXHAKR   109
239579907|Gnomulus_latoperculum/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXHAKR   109
238768583|Herpetopoma_pauperculu/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXHAKR   109
238768581|Calliotropis_sp./1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXHAKR   109
194173333|Aoraki_inerma/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXHAKR   109
73761872|Archipsocus_sp./1-110      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXHAKR   109
224814512|Phyllium_giganteum/1-105  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXH....   105
111620926|Cybister_fimbriolatus/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAILAKR   109
109159168|Meiacanthus_grammistes/1-110 .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCATHAKR   110
188037158|Archisepsis_priapus/1-110 .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXHAKL   110
98374203|Allobates_caeruleodacty/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAFHALR   109
282762226|Gandanameno_spenceri/1-109 .......................XK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXHAKR   109
223403481|Novodamus_sp./1-109       .......................RK..GTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCATHAKR   109
consensus                            *K  STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA*HA**
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logo

157102632|Notaticus_fasciatus/1-102   ..............................   102
157102544|Deronectes_moestus/1-102   ..............................   102
124488535|Hyphydrus_sp./1-102       ..............................   102
109159104|Erythrocles_monodi/1-110  ..............................   110
4883751|Petrobiinae_gen./1-108      ..............................   108
239579931|Palaeoncopus_gunung/1-109 ..............................   109
239579919|Caenoncopus_affinis/1-109 ..............................   109
239579911|Gnomulus_javanicus/1-109  ..............................   109
239579907|Gnomulus_latoperculum/1-109 ............................   109
238768583|Herpetopoma_pauperculu/1-109 ...........................   109
238768581|Calliotropis_sp./1-109    ..............................   109
194173333|Aoraki_inerma/1-109       ..............................   109
73761872|Archipsocus_sp./1-110      V.............................   110
224814512|Phyllium_giganteum/1-105  ..............................   105
111620926|Cybister_fimbriolatus/1-109 ............................   109
109159168|Meiacanthus_grammistes/1-110 ...........................   110
188037158|Archisepsis_priapus/1-110 ..............................   110
98374203|Allobates_caeruleodacty/1-109 ...........................   109
282762226|Gandanameno_spenceri/1-109 ............................   109
223403481|Novodamus_sp./1-109       ..............................   109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo

157673901|Pachygnatha_degeeri/1-109     .......................RK..CTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
158345880|Pheidole_sp./1-107             .......................XK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
255934702|Pseudomantis_albofimbr/1-109  .......................XK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTXLCAIHAXR   109
149286317|Pomatoceros_triqueter/1-114   ....................RLLVN..LPGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
215260744|Granaria_braunii/1-102        ...............................PPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
264687551|Euchrysops_cnejus/1-109       .......................RK..SXGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184598|Rana_nigromaculata/1-109       .......................RK..SXGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
119689983|Anelosimus_kohi/1-115         ....................QTARK..SXGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
297039166|Nototanais_sp./1-107          ...............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEXTNLCAIHAKR   105
121296109|Deropeltis_sp./1-123          ...............MARTKQTARK..FTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
121296087|Aptera_fusca/1-123            ...............MARTKQTARK..FTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
121296085|Ischnoptera_sp./1-123         ...............MARTKQTARK..FTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
194398807|Priapulopsis_bicaudatu/1-113  ...........................RGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   106
82561572|Aperostoma_palmeri/1-98        ...................................XLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    98
158327358|Orchestia_guancha/1-106       ..................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXBTNLCAIHAKR    99
158327362|Orchestia_guancha/1-105       .....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXBTNLCAIHAKR    98
61677491|Scutus_unguis/1-125            ...............MARTKQTARK..STGVKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
167614056|Viviparus_contectus/1-125     ...............MARTKQTARK..STGGKALCKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
297040828|Callobius_paskenta/1-124      ...............MARSKQTARK..STGGKAFXXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
1731925|Anopheles_gambiae/1-115         ................RTKQTARK..STGGKAPRKQLARKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   115
consensus                                                      **   *G*KAP*KQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

157673901|Pachygnatha_degeeri/1-109     ..............................   109
158345880|Pheidole_sp./1-107             ..............................   107
255934702|Pseudomantis_albofimbr/1-109  ..............................   109
149286317|Pomatoceros_triqueter/1-114   VT............................   114
215260744|Granaria_braunii/1-102        ..............................   102
264687551|Euchrysops_cnejus/1-109       ..............................   109
90184598|Rana_nigromaculata/1-109       ..............................   109
119689983|Anelosimus_kohi/1-115         VTI...........................   115
297039166|Nototanais_sp./1-107          VT............................   107
121296109|Deropeltis_sp./1-123          VTIMPK........................   123
121296087|Aptera_fusca/1-123            VTIMPK........................   123
121296085|Ischnoptera_sp./1-123         VTIMPK........................   123
194398807|Priapulopsis_bicaudatu/1-113  VTIMPKD.......................   113
82561572|Aperostoma_palmeri/1-98        ..............................    98
158327358|Orchestia_guancha/1-106       VTIMPKD.......................   106
158327362|Orchestia_guancha/1-105       VTIMPKD.......................   105
61677491|Scutus_unguis/1-125            VTIMPKDI......................   125
167614056|Viviparus_contectus/1-125     VTIMPKDI......................   125
297040828|Callobius_paskenta/1-124      VTIMPKD.......................   124
1731925|Anopheles_gambiae/1-115         ..............................   115
consensus                               ***
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
30140426|Protopelagonemertes_sp./1-110   .....................ARK..SXGGKAXRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
109159275|Siganus_stellatus/1-110        .....................ARK..STGGKAXSKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
264667503|Locusta_migratoria/1-110       .....................ARK..FTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
4883752|Atalophlebia_sp./1-109           .....................SK..STGGKAPRKQFATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
4883759|Kempina_mikado/1-109             .....................RK..FDGGKALRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
84683159|Prosthecina_avita/1-109         .....................RK..XTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
209394937|Eisenia_zebra/1-109            .....................RK..XTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
86372462|Phascolion_cryptum/1-109        .....................XX..STGXKXPRKXLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184600|Rana_chalconota/1-109           .....................RL..SAGGKAPLVQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184932|Bufo_camerunensis/1-109          .....................RK..STGGKALRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
106896144|Strombus_mutabilis/1-109       .....................RK..STGEKAPWKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
158327348|Palmorchestia_hypogaea/1-109   .............................AXRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
209970254|Pholidoteuthis_adami/1-109     .....................RK..STGGKAPRKQWATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
239836508|Laevipilina_hyalina/1-109      .....................RK..FTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934694|Tarachomantis_caldwell/1-109   .....................RK..STGGKXPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
262068505|Agyneta_ramosa/1-109           .....................RK..NTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
306975088|Selenops_sp./1-109              .....................RK..XTGGKXPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
306975244|Selenops_debilis/1-109          .....................RK..STGGKAPRKQGATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
30140278|Pelagonemertes_sp./1-108         .....................E..STGSKAXRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
161376194|Claudioperla_sp./1-108          ...................................AQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   100
consensus                                 **  **G*KA**KQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo
30140426|Protopelagonemertes_sp./1-110   ..............................   110
109159275|Siganus_stellatus/1-110        ..............................   110
264667503|Locusta_migratoria/1-110       ..............................   110
4883752|Atalophlebia_sp./1-109           ..............................   109
4883759|Kempina_mikado/1-109             ..............................   109
84683159|Prosthecina_avita/1-109         ..............................   109
209394937|Eisenia_zebra/1-109            ..............................   109
86372462|Phascolion_cryptum/1-109        ..............................   109
90184600|Rana_chalconota/1-109           ..............................   109
90184932|Bufo_camerunensis/1-109         ..............................   109
106896144|Strombus_mutabilis/1-109       ..............................   109
158327348|Palmorchestia_hypogaea/1-109   VTIMPKD........................   109
209970254|Pholidoteuthis_adami/1-109     ..............................   109
239836508|Laevipilina_hyalina/1-109      ..............................   109
255934694|Tarachomantis_caldwell/1-109   ..............................   109
262068505|Agyneta_ramosa/1-109           ..............................   109
306975088|Selenops_sp./1-109             ..............................   109
306975244|Selenops_debilis/1-109         ..............................   109
30140278|Pelagonemertes_sp./1-108        ..............................   108
161376194|Claudioperla_sp./1-108         VTIMPKDI......................   108
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
196481230|Leptophlebiidae_sp./1-108   .....................K..SHGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
4883749|Tricholepidion_gertschi/1-107   .....................F.TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   107
158346030|Pheidole_protea/1-107   ....................RK..STGGKAPRKQXXTKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158327344|Palmorchestia_epigaea/1-106   ..........................HRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   101
224814408|Agamemnon_cornutus/1-104   .....................K..XTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....   104
50347026|Cranchia_scabra/1-103   ............................KAPRKLLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   103
38505232|Haliotis_tuberculata/1-102   ............................IPEKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
196481302|Paraleptophlebia_debil/1-101   ............................PASQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   101
225548452|Sphaeroma_sp./1-100   ...................................ALATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAQR    98
6049773|Owenia_fusiformis/1-99   ........................NGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......    99
6049780|Amphitritides_harpa/1-99   ........................XGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......    99
238817445|Drunella_spinifera/1-115   ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNXCAIHAKR   111
262178892|Selenops_lindborgi/1-109   .....................R..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTXCAIHAKR   109
90184828|Andrias_japonicus/1-109   .....................R..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNXCAIHAKR   109
30140432|Ramphogordius_sanguineu/1-110   ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNXCAIHAKR   110
220980735|Macrobrachium_yui/1-115   ...................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNXCAIHAKR   112
68509465|Callibaetis_sp./1-125   ...............MARTKQTARK..SSGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNXCAIHAKR   117
158324361|Brachytron_pratense/1-100   .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDHS........   100
157102498|Tyndallhydrus_caraboid/1-102   ............................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXA.....   102
157783399|Indiopsocus_sp./1-107   .....................R..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHA..   107
consensus                                            *  ****KAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN**AI****

logo

196481230|Leptophlebiidae_sp./1-108   ..............................   108
4883749|Tricholepidion_gertschi/1-107   ..............................   107
158346030|Pheidole_protea/1-107   ..............................   107
158327344|Palmorchestia_epigaea/1-106   VTIMP..........................   106
224814408|Agamemnon_cornutus/1-104   ..............................   104
50347026|Cranchia_scabra/1-103   ..............................   103
38505232|Haliotis_tuberculata/1-102   ..............................   102
196481302|Paraleptophlebia_debil/1-101   ..............................   101
225548452|Sphaeroma_sp./1-100   VT............................   100
6049773|Owenia_fusiformis/1-99   ..............................    99
6049780|Amphitritides_harpa/1-99   ..............................    99
238817445|Drunella_spinifera/1-115   VTIM..........................   115
262178892|Selenops_lindborgi/1-109   ..............................   109
90184828|Andrias_japonicus/1-109   ..............................   109
30140432|Ramphogordius_sanguineu/1-110   ..............................   110
220980735|Macrobrachium_yui/1-115   VTI...........................   115
68509465|Callibaetis_sp./1-125   VTIMPKDI......................   125
158324361|Brachytron_pratense/1-100   ..............................   100
157102498|Tyndallhydrus_caraboid/1-102   ..............................   102
157783399|Indiopsocus_sp./1-107   ..............................   107
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
306975312|Selenops_submaculosus/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHAKR   109
264687587|Theclinesthes_miskini/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHAKR   109
194173327|Aoraki_denticulata/1-109     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHAKR   109
98374127|Hyloxalus_pulcherrimus/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHAKR   109
86372424|Aspidosiphon_elegans/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHAKR   109
55741131|Cyphophthalmus_markoi/1-109  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHAKR   109
71726165|Maja_squinado/1-111          ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHAKR   110
220980661|Macrobrachium_clymene/1-115 ...................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHAKR   112
68509521|Attenella_margarita/1-124   ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHAKR   117
196481346|Ameletus_sp./1-107          ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHXKR   107
157102630|Thermonectus_sp./1-102      ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNSCA......   102
110555762|Papuadytes_larsoni/1-106    .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTXPCAIHA...   106
305691077|Cybaeus_sp./1-114           ...................KQTASK..CTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLYEDTNLCAIHAKR   113
91719078|Eurycyde_raphiaster/1-108    ......................GN..RQGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   108
110627842|Nereimyra_punctata/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLRAIHAKR   109
33114092|Mytilus_californianus/1-136 ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLRAIHAKR   117
6049775|Glycera_sp./1-99              ........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEXTNL.......    99
161376228|Nemoura_cinerea/1-113       ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLVRD....   113
90184560|Pelobates_fuscus/1-102       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNM.......   102
306975398|Selenops_candidus/1-109     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLSAIHAKR   109
consensus                             *K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL*AIH***
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logo
306975312|Selenops_submaculosus/1-109   ..............................    109
264687587|Theclinesthes_miskini/1-109   ..............................    109
194173327|Aoraki_denticulata/1-109     ..............................    109
98374127|Hyloxalus_pulcherrimus/1-109 ..............................    109
86372424|Aspidosiphon_elegans/1-109   ..............................    109
55741131|Cyphophthalmus_markoi/1-109  ..............................    109
71726165|Maja_squinado/1-111          V.............................    111
220980661|Macrobrachium_clymene/1-115 VTI...........................    115
68509521|Attenella_margarita/1-124   VTIMPKD........................    124
196481346|Ameletus_sp./1-107          ..............................    107
157102630|Thermonectus_sp./1-102      ..............................    102
110555762|Papuadytes_larsoni/1-106    ..............................    106
305691077|Cybaeus_sp./1-114           V.............................    114
91719078|Eurycyde_raphiaster/1-108    ..............................    108
110627842|Nereimyra_punctata/1-109    ..............................    109
33114092|Mytilus_californianus/1-136 VTIMPKDIQLARRIRGERA.............    136
6049775|Glycera_sp./1-99              ..............................     99
161376228|Nemoura_cinerea/1-113       ..............................    113
90184560|Pelobates_fuscus/1-102       ..............................    102
306975398|Selenops_candidus/1-109     ..............................    109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
224814440|Ctenomorpha_marginipen/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLGAIHAKR   109
300248423|Pachacanthocnemis_bell/1-118   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLGAIHTKR   113
220980739|Macrobrachium_sp./1-115       ....................QTARX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDXNLCAIHAKR   112
58199395|Cichlasoma_bimaculatum/1-110    ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCXIHGKR   110
109159266|Scatophagus_tetracanth/1-110   ......................ARK..SXGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHAKR   110
296125013|Xanthocaecilius_sommer/1-110   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIXAKX   109
4883744|Epicyliosoma_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLWAIHAKR   109
4883760|Ammothella_biunguiculata/1-109   .......................RK..SSGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTXXGAIXAKR   109
255934484|Gonypetyllis_semuncial/1-107   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNXXAIHA..   107
54179385|Lancetes_varius/1-103           ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLAR.....   103
54179395|Hygrobia_australasiae/1-103     ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLRV.....   103
224814470|Heteropteryx_dilatata/1-103    ........................................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDDKLCAI....   103
161376139|Crypturoperla_paradoxa/1-126   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTXLCAIXAKR   117
262178938|Selenops_lindborgi/1-99        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFDD..........   99
296124969|Ectopsocus_meridionali/1-110   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTHLCAIHAKR   109
26800901|Oikopleura_dioica/1-136         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTHLCAIHAKR   117
150247819|Tropidomantis_sp./1-125        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXXIHAKR   117
61677495|Clypeosectus_sp./1-122          ...............MVVTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTKLCAXXAKR   117
194780648|Drosophila_ananassae/1-119     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFENTNFLLHFMAY   117
188037162|Australosepsis_niveipe/1-118   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNWCAIHAKR   113
consensus                                                        *RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT*********
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logo
224814440|Ctenomorpha_marginipen/1-109   ..................................   109
300248423|Pachacanthocnemis_bell/1-118   VTIMP...........................   118
220980739|Macrobrachium_sp./1-115         VTI.............................   115
58199395|Cichlasoma_bimaculatum/1-110    ..................................   110
109159266|Scatophagus_tetracanth/1-110   ..................................   110
296125013|Xanthocaecilius_sommer/1-110   V.................................   110
4883744|Epicyliosoma_sp./1-109           ..................................   109
4883760|Ammothella_biunguiculata/1-109   ..................................   109
255934484|Gonypetyllis_semuncial/1-107   ..................................   107
54179385|Lancetes_varius/1-103           ..................................   103
54179395|Hygrobia_australasiae/1-103     ..................................   103
224814470|Heteropteryx_dilatata/1-103    ..................................   103
161376139|Crypturoperla_paradoxa/1-126   VTXMPXDIL........................   126
262178938|Selenops_lindborgi/1-99        ..................................   99
296124969|Ectopsocus_meridionali/1-110   V.................................   110
26800901|Oikopleura_dioica/1-136         VTIMPKDIQLARRIRGERA..............   136
150247819|Tropidomantis_sp./1-125        VTIMPKDI........................   125
61677495|Clypeosectus_sp./1-122          VTIMP...........................   122
194780648|Drosophila_ananassae/1-119     VV..............................   119
188037162|Australosepsis_niveipe/1-118   VTIMP...........................   118
consensus                                *
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
108795520|Coelotes_terrestris/1-115      ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDINLCAIHAKR    113
47498316|Uleiota_sp./1-110               ....................KQSARK..SAGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTSLCAIH....    110
157783381|Hyalopsocus_morio/1-110        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEHTNLCAIHAKR    109
38505231|Rhabdus_rectius/1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEXTNLCAIXAKR    109
81158384|Madagassophora_hova/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEBTNLCAIXAKR    109
166092256|Thomisus_sp./1-107             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTTLGAIHT..    107
34013728|Polyplocia_sp./1-104            ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDIXSQ......    104
224814438|Cnipsus_rachis/1-100           .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEXXN........    100
224814460|Eurycnema_goliath/1-102         .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDXNLQ......    102
30140434|Riserius_pugetensis/1-110        ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDXBLCAIHAKR    110
220980705|Macrobrachium_mammillo/1-115   ...................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDXNLCAIHAKR    112
220980711|Macrobrachium_nipponen/1-115   ...................QTAXK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDXXXXAIXAKR    112
239579917|Gnomulus_armillatus/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDXNLCXIHAKR    109
50346979|Stauroteuthis_syrtensis/1-95    ...........................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFETTNLCAI....     95
38505239|Limaria_hians/1-109              ......................RK..STGGKXPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
297040900|Callobius_nomeus/1-123          ................AXSKQTARK..STGGKXPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
219923311|Holthuisana_festiva/1-105      ..........................SXXXXXPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..    105
106896126|Strombus_gracilior/1-105       ...........................GGKAPCKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    105
106896148|Strombus_galeatus/1-109         ......................RK..STGGKAPCKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
33086784|Tidarren_sisyphoides/1-109      ......................SK..STGGKAPSKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKK    109
consensus                                                     *K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFE***LCAI****

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
108795520|Coelotes_terrestris/1-115      VT.............................    115
47498316|Uleiota_sp./1-110               ..............................    110
157783381|Hyalopsocus_morio/1-110        V.............................    110
38505231|Rhabdus_rectius/1-109           ..............................    109
81158384|Madagassophora_hova/1-109       ..............................    109
166092256|Thomisus_sp./1-107             ..............................    107
34013728|Polyplocia_sp./1-104            ..............................    104
224814438|Cnipsus_rachis/1-100           ..............................    100
224814460|Eurycnema_goliath/1-102         ..............................    102
30140434|Riserius_pugetensis/1-110        ..............................    110
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220980711|Macrobrachium_nipponen/1-115   VTI............................    115
239579917|Gnomulus_armillatus/1-109      ..............................    109
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38505239|Limaria_hians/1-109              ..............................    109
297040900|Callobius_nomeus/1-123         VTIMPKD.......................    123
219923311|Holthuisana_festiva/1-105      ..............................    105
106896126|Strombus_gracilior/1-105       ..............................    105
106896148|Strombus_galeatus/1-109        ..............................    109
33086784|Tidarren_sisyphoides/1-109      ..............................    109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
262179182|Selenops_micropalpus/1-109      .....................RK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
209970191|Mesonychoteuthis_hamil/1-109     .....................RK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184994|Ophryophryne_microstoma/1-109    .....................RK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
38607218|Prochaetoderma_sp./1-109         .....................RK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
208479656|Nannacara_taenia/1-110          ....................ARK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089785|Glossolepis_incisus/1-110        ....................ARK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
50897799|Labrisomus_multiporosus/1-110    ....................ARK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
220980709|Macrobrachium_niphanae/1-115    ...................QTARK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    112
220980687|Macrobrachium_lar/1-115          ...................QTARK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    112
220980671|Macrobrachium_gracilir/1-115    ...................QTARK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    112
238817435|Cincticostella_insolta/1-117    ..................KQTARK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
297040882|Callobius_sp./1-124             ...............MARTKQTARK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
119689971|Anelosimus_arizona/1-117         ................TKQTARK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKR    114
56089811|Atherinella_panamensis/1-110     ....................ARX..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
124488483|Allodessus_megacephalu/1-102    ........................STGGKAPGKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
54179397|Hygrobia_hermanni/1-103          .....................K..STGGKAPAKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    103
300393415|Armina_sp./1-109                .....................RK..STGGKAPGKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
265267400|Lachnus_sp./1-109               .....................RK..STGGKAPGKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
106896158|Strombus_lentiginosus/1-109     .....................RK..STGGKAPGKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
110627868|Protodorvillea_keferst/1-109    .....................RK..STGGKAPSKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
consensus                                                   *RK  STGGKAP*KQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
262179182|Selenops_micropalpus/1-109      ..............................      109
209970191|Mesonychoteuthis_hamil/1-109     ..............................      109
90184994|Ophryophryne_microstoma/1-109    ..............................      109
38607218|Prochaetoderma_sp./1-109         ..............................      109
208479656|Nannacara_taenia/1-110          ..............................      110
56089785|Glossolepis_incisus/1-110        ..............................      110
50897799|Labrisomus_multiporosus/1-110    ..............................      110
220980709|Macrobrachium_niphanae/1-115    VTI...........................      115
220980687|Macrobrachium_lar/1-115          VTI...........................      115
220980671|Macrobrachium_gracilir/1-115    VTI...........................      115
238817435|Cincticostella_insolta/1-117    VTIM..........................      117
297040882|Callobius_sp./1-124             VTIMPKD.......................      124
119689971|Anelosimus_arizona/1-117        VTI...........................      117
56089811|Atherinella_panamensis/1-110     ..............................      110
124488483|Allodessus_megacephalu/1-102    ..............................      102
54179397|Hygrobia_hermanni/1-103          ..............................      103
300393415|Armina_sp./1-109                ..............................      109
265267400|Lachnus_sp./1-109               ..............................      109
106896158|Strombus_lentiginosus/1-109     ..............................      109
110627868|Protodorvillea_keferst/1-109    ..............................      109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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90184904|Megophrys_nasuta/1-109                  .......................RK..STGGKAPSKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
52699643|Orchesella_villosa/1-109                  .......................RK..STGGKAPSKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
50347070|Sthenoteuthis_oualanien/1-109              .......................RK..STGGKAPSKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
38607260|Architeuthis_dux/1-109                    .......................RK..STGGKAPSKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
148372467|Sillago_chondropus/1-110                 ......................ARK..STGGKAPSKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
187948511|Argopecten_irradians/1-113               ...................KQSARK..STGGKAAGKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
124488553|Microdytes_boukali/1-102                 ........................STGGXAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
219923393|Thelphusula_hulu/1-105                   ........................STGGXAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   105
219923317|Liotelphusa_gageii/1-105                  ........................STGGXAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   105
91719098|Pallenopsis_macneilli/1-108               .......................SI..STGGNAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   108
68448483|Danio_rerio/1-136                         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFGDTNLCAIHAKR   117
257480981|Dichotomius_semisquamo/1-125             ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVVLFEDTNLCAIHAMR   116
283857509|Osbornellus_sp./1-117                    ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVXLXXPXXLCXIXXXX   113
305691067|Cybaeota_sp./1-114                       ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGFFGDTNLCAIHAKR   113
187948521|Adamussium_colbecki/1-113                ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYWVELFENTNLCAIHAKR   113
297040770|Callobius_manzanita/1-109                ...............MACXKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGXFEDTN........   109
58081704|Sartoriana_spinigera/1-102                ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYPR..............   102
62899596|Barytelphusa_sp./1-102                    ...............MAXYKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYPR..............   102
62899606|Barytelphusa_sp./1-102                    ...............MXXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYPG..............   102
62899598|Gubernatoriana_gubernat/1-99              ................YKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYPG..............    99
consensus                                                             ****RK  STGGKAP*KQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAY*V***************
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90184904|Megophrys_nasuta/1-109                  ..................................   109
52699643|Orchesella_villosa/1-109                ..................................   109
50347070|Sthenoteuthis_oualanien/1-109           ..................................   109
38607260|Architeuthis_dux/1-109                  ..................................   109
148372467|Sillago_chondropus/1-110               ..................................   110
187948511|Argopecten_irradians/1-113             ..................................   113
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219923317|Liotelphusa_gageii/1-105                ..................................   105
91719098|Pallenopsis_macneilli/1-108             ..................................   108
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257480981|Dichotomius_semisquamo/1-125           VTIMPKDIQ.........................   125
283857509|Osbornellus_sp./1-117                  VTIM..............................   117
305691067|Cybaeota_sp./1-114                     V.................................   114
187948521|Adamussium_colbecki/1-113              ..................................   113
297040770|Callobius_manzanita/1-109              ..................................   109
58081704|Sartoriana_spinigera/1-102              ..................................   102
62899596|Barytelphusa_sp./1-102                  ..................................   102
62899606|Barytelphusa_sp./1-102                  ..................................   102
62899598|Gubernatoriana_gubernat/1-99            ..................................    99
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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150247999|Microphotina_sp./1-98          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFG...........   98
45545234|Stagmomantis_carolina/1-96        ........................................ATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFZDTNLCAIHAKR   96
195357649|Drosophila_sechellia/1-136       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLLEDTNLCAIHAKR  117
119690032|Anelosimus_rupununi/1-117        ..................KQTARK..XTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGXFEDTNLCAIHAKR  113
224814504|Pachymorpha_sp./1-104           .......................K...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLXXL....  104
3002659|Ophicardelus_ornatus/1-91          ............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGXF............   91
3002657|Onchidium_sp./1-91                 ............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGXF............   91
157102736|Vatellus_sp./1-102               ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGXFEDTNLCA.....  102
157102700|Laccophilini_sp./1-102           ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGXFEDTNLCA.....  102
150247803|Euchomenella_sp./1-121           ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGXFEDTNLCAIHAKR  113
158346000|Pheidole_noda/1-107              .......................RX..STGGKPPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
194173325|Aoraki_denticulata/1-109          .......................RX..STGGKAPRKQVATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
161376332|Styloperla_wui/1-124             ...............ARTKQTARN..SSGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  116
4883737|Schizoribautia_sp./1-103           ..........................GGKAPRKQVATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  103
219923389|Thaksinthelphusa_yongc/1-105     ........................TTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923267|Epilobocera_sinuatifro/1-105     ........................STGGKAPRRQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
54179399|Hygrobia_maculata/1-103           .......................K..STGGKAPKKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
158346088|Pheidole_sp./1-107               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTXLCAIHA..  107
194173285|Pettalus_sp./1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEBTNLCAIHAXR  109
158324311|Coeliccia_cyanomelas/1-108       .......................K..STGGKAPRKQLATKP.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
consensus                                                          **GGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVG*FEDTNLCA***

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150247999|Microphotina_sp./1-98          ..............................   98
45545234|Stagmomantis_carolina/1-96        ..............................   96
195357649|Drosophila_sechellia/1-136       VTIMPKDIQLARRIRGERA...........  136
119690032|Anelosimus_rupununi/1-117        VTIM..........................  117
224814504|Pachymorpha_sp./1-104           ..............................  104
3002659|Ophicardelus_ornatus/1-91          ..............................   91
3002657|Onchidium_sp./1-91                 ..............................   91
157102736|Vatellus_sp./1-102               ..............................  102
157102700|Laccophilini_sp./1-102           ..............................  102
150247803|Euchomenella_sp./1-121           VTIMPKDI......................  121
158346000|Pheidole_noda/1-107              ..............................  107
194173325|Aoraki_denticulata/1-109         ..............................  109
161376332|Styloperla_wui/1-124             VTIMPKDI......................  124
4883737|Schizoribautia_sp./1-103           ..............................  103
219923389|Thaksinthelphusa_yongc/1-105     ..............................  105
219923267|Epilobocera_sinuatifro/1-105     ..............................  105
54179399|Hygrobia_maculata/1-103           ..............................  103
158346088|Pheidole_sp./1-107               ..............................  107
194173285|Pettalus_sp./1-109               ..............................  109
158324311|Coeliccia_cyanomelas/1-108       ..............................  108
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
82618997|Acilius_fraternus/1-125                  .....................MARTKQTAXR..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFQDTNLCAIHAKR     117
290751003|Smaragdia_viridis/1-109                  .........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDSNLCAIHAKR     109
289536477|Maymena_ambita/1-109                     .........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXNTNLCAIHAKR     109
281323550|Stylocellus_sp./1-109                    .........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNVCAIHAKR     109
265267392|Isoperla_sp./1-109                        .........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFDDTNLCAIHAKR     109
264687399|Cyclargus_ammon/1-109                    .........................RK..STGGKAPRKQLATKA.ARKTA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
239579929|Caenoncopus_sp./1-109                    .........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCPIHAKR     109
237513175|Baccalaureus_maldivens/1-109              .........................RK..STGGKAPRRQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
223403471|Mexitlia_trivittata/1-109                 .........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEBTNLCAIHAKR     109
209970222|Mastigoteuthis_hjorti/1-109               .........................RK..STGGKAPRKQMATKA.ARKTA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279851|Anarithma_sp./1-109                       .........................RK..STGGKAPRKQVATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627858|Poecilochaetus_sp./1-109                 .........................RK..STGGKAPRKQLATKT.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627824|Hesione_sp./1-109                         .........................RK..STGGKAARKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627812|Eunice_pennata/1-109                      .........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGMFEDTNLCAIHAKR     109
98365387|Rakaia_pauli/1-109                         .........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDSNLCAIHGKR     109
262178900|Selenops_lindborgi/1-109                  .........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTXLCAIHAKR     109
98374165|Colostethus_sp./1-109                      .........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTXLCAIHAKR     109
90184972|Quasipaa_cf./1-109                         .........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTXLCAIHAKR     109
90184420|Laliostoma_labrosum/1-109                  .........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVAALFEDTNLCAIHAKR     109
90184376|Telmatobius_sp./1-109                      .........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVAALFEDTNLCAIHAKR     109
consensus                                           RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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82618997|Acilius_fraternus/1-125                  VTIMPKDI.............................     125
290751003|Smaragdia_viridis/1-109                  ...................................     109
289536477|Maymena_ambita/1-109                     ...................................     109
281323550|Stylocellus_sp./1-109                    ...................................     109
265267392|Isoperla_sp./1-109                        ...................................     109
264687399|Cyclargus_ammon/1-109                    ...................................     109
239579929|Caenoncopus_sp./1-109                    ...................................     109
237513175|Baccalaureus_maldivens/1-109              ...................................     109
223403471|Mexitlia_trivittata/1-109                 ...................................     109
209970222|Mastigoteuthis_hjorti/1-109               ...................................     109
160279851|Anarithma_sp./1-109                       ...................................     109
110627858|Poecilochaetus_sp./1-109                  ...................................     109
110627824|Hesione_sp./1-109                         ...................................     109
110627812|Eunice_pennata/1-109                      ...................................     109
98365387|Rakaia_pauli/1-109                         ...................................     109
262178900|Selenops_lindborgi/1-109                  ...................................     109
98374165|Colostethus_sp./1-109                      ...................................     109
90184972|Quasipaa_cf./1-109                         ...................................     109
90184420|Laliostoma_labrosum/1-109                  ...................................     109
90184376|Telmatobius_sp./1-109                      ...................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
282762234|Hersilia_insulana/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXDTNLCAIHAKR     109
262068539|Oedothorax_apicatus/1-109         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXDTNLCAIHAKR     109
261942209|Dysdera_shardana/1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXDTNLCAIHAKR     109
82622145|Nucula_sulcata/1-109              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXDTNLCAIHAKR     109
194173335|Aoraki_inerma/1-109              .......................RK..STGGKAPRKXLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
62130960|Paraulacizes_irrorata/1-109       .......................RK..STGGKAPRKXLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347062|Neoteuthis_thielei/1-109          .......................RK..STGGKAPRKQXATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353887|Verruca_stroemia/1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVSLFEDTNLCAIHAKR     109
90184460|Megaelosia_goeldii/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEXTNLCAIHAKR     109
62130950|Proconosama_columbica/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEXTNLCAIHAKR     109
4883753|Hutchinsoniella_macracan/1-109     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEXTNLCAIHAKR     109
296125039|Physconelloides_euryse/1-110     .......................RK..STGGKAPRKXLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
157783393|Camelopsocus_monticolu/1-110     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTXLCAIHAKR     109
157783379|Atropsocus_atratus/1-110         .......................RK..STGGKAPRKQLAPKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
56089751|Rheocles_derhami/1-110            ......................ARK..STGGKAPRKQLATKA.AHKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
150247959|Pseudocreobotra_occell/1-125     ...............XXRTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXDTNLCAIHAKR     117
150247873|Carrikerella_sp./1-125           ...............MARXKQTARK..STGGKAPRKQLASKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
262178728|Selenops_insularis/1-108          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFDDTNLCAIHAK.     108
91719088|Ammothea_ovatoides/1-108          .......................RK..STGGKAPKKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     108
187948559|Laevichlamys_multisqua/1-113     ...................KQTARK..STGGKAPRKQLATKT.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
consensus                                                           RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF*DTNLCAIHAKR

logo
282762234|Hersilia_insulana/1-109          ..............................     109
262068539|Oedothorax_apicatus/1-109         ..............................     109
261942209|Dysdera_shardana/1-109           ..............................     109
82622145|Nucula_sulcata/1-109              ..............................     109
194173335|Aoraki_inerma/1-109              ..............................     109
62130960|Paraulacizes_irrorata/1-109       ..............................     109
50347062|Neoteuthis_thielei/1-109          ..............................     109
41353887|Verruca_stroemia/1-109            ..............................     109
90184460|Megaelosia_goeldii/1-109          ..............................     109
62130950|Proconosama_columbica/1-109       ..............................     109
4883753|Hutchinsoniella_macracan/1-109     ..............................     109
296125039|Physconelloides_euryse/1-110     V.............................     110
157783393|Camelopsocus_monticolu/1-110     V.............................     110
157783379|Atropsocus_atratus/1-110         V.............................     110
56089751|Rheocles_derhami/1-110            ..............................     110
150247959|Pseudocreobotra_occell/1-125     VTIMPKDI......................     125
150247873|Carrikerella_sp./1-125           VTIMPKDI......................     125
262178728|Selenops_insularis/1-108          ..............................     108
91719088|Ammothea_ovatoides/1-108          ..............................     108
187948559|Laevichlamys_multisqua/1-113     ..............................     113
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
187948515|Amusium_balloti/1-113                  ....................KQTARK..STGGKPPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
305691063|Desis_formidabilis/1-114                  ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCGIHAKR    113
109134764|Lipocalliini_sp./1-115                   ....................-QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEETNLCAIHAKR    112
300248403|Aphrophora_permutata/1-115               ....................KQTARK..STGGKAPRKQLAPKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
283857411|Cochlorhinus_pluto/1-117                 ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTXLCAIHAKR    113
283857491|Menosoma_sp./1-117                       ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXDTNLCAIHAKR    113
283857385|Ballana_ortha/1-117                      ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXDTNLCAIHAKR    113
119690006|Anelosimus_guacamayos/1-117              ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFXDTNLCAIHAKR    113
194926825|Drosophila_erecta/1-136                  ...............MVCTKQTARK..STGGKATRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
119690012|Anelosimus_jabaquara/1-116                ....................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTXLCAIHAKR    114
195465105|Drosophila_willistoni/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLYEDTNLCAIHAKR    117
61677537|Sukaschitrochus_atkinso/1-120              ....................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFENTNLCAIHAKR    114
195361383|Drosophila_sechellia/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCTIHAKR    117
148234575|Xenopus_laevis/1-136                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCGIHAKR    117
38564127|Drosophila_pseudoobscur/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKGA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
68509467|Rhithrogena_sp./1-125                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
68509463|Thraulodes_sp./1-125                      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
68509461|Paraleptophlebia_vaciva/1-125              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
68509459|Ephemerella_sp./1-125                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
68509455|Drunella_doddsi/1-125                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
consensus                                            *  *KQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
187948515|Amusium_balloti/1-113                  ..................................    113
305691063|Desis_formidabilis/1-114                  V.................................    114
109134764|Lipocalliini_sp./1-115                   VTI...............................    115
300248403|Aphrophora_permutata/1-115               VT................................    115
283857411|Cochlorhinus_pluto/1-117                 VTIM..............................    117
283857491|Menosoma_sp./1-117                       VTIM..............................    117
283857385|Ballana_ortha/1-117                      VTIM..............................    117
119690006|Anelosimus_guacamayos/1-117              VTIM..............................    117
194926825|Drosophila_erecta/1-136                  VTIMPKDIQLARRIRGERA...............    136
119690012|Anelosimus_jabaquara/1-116                VT................................    116
195465105|Drosophila_willistoni/1-136               VTIMPKDIQQARRIRGERA...............    136
61677537|Sukaschitrochus_atkinso/1-120              VTIMPK............................    120
195361383|Drosophila_sechellia/1-136               VTIMPKDIQLARRIRGERA...............    136
148234575|Xenopus_laevis/1-136                     VTIMPKDIQLARRIRGERA...............    136
38564127|Drosophila_pseudoobscur/1-136              VTIMPKDIQLARRIRGERA...............    136
68509467|Rhithrogena_sp./1-125                     VTIMPKDI..........................    125
68509463|Thraulodes_sp./1-125                      VTIMPKDI..........................    125
68509461|Paraleptophlebia_vaciva/1-125              VTIMPKDI..........................    125
68509459|Ephemerella_sp./1-125                     VTIMPKDI..........................    125
68509455|Drunella_doddsi/1-125                     VTIMPKDI..........................    125
consensus                                          VTI*****
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                 4 MARTKQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                     3                                                                                                                                                 3
                                                     2                                                                                                                                                 2
                                                     1                                                                                                                                                 1
61677559|Turbo_setosus/1-125                         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
61677557|Astraea_undosa/1-125                        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
61677555|Tegula_eiseni/1-125                         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
61677549|Trochus_niloticus/1-125                    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
61677547|Stomatella_sp./1-125                        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
61677533|Rhynchopelta_sp./1-125                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
61677531|Peltospira_delicata/1-125                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
61677527|Perotrochus_amabilis/1-125                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
61677523|Nerita_polita/1-125                         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
61677517|Lepetodrilus_pustulosus/1-125               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
61677515|Lepetodrilus_elevatus/1-125                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
61677511|Haliotis_midae/1-125                        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
61677507|Haliotis_virginea/1-125                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
61677505|Haliotis_pustulata/1-125                    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
61677503|Haliotis_asinina/1-125                      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
61677501|Haliotis_jacnensis/1-125                    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
57232801|Grylloblattina_djakonov/1-125               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
57232799|Galloisiana_sp./1-125                       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
57232787|Auchenomus_sp./1-125                        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
57232785|Nala_tenuicornis/1-125                      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
consensus                                            MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                 4 VTIMPKDI 4
                                                     3          3
                                                     2          2
                                                     1          1
61677559|Turbo_setosus/1-125                         VTIMPKDI.......................   125
61677557|Astraea_undosa/1-125                        VTIMPKDI.......................   125
61677555|Tegula_eiseni/1-125                         VTIMPKDI.......................   125
61677549|Trochus_niloticus/1-125                     VTIMPKDI.......................   125
61677547|Stomatella_sp./1-125                        VTIMPKDI.......................   125
61677533|Rhynchopelta_sp./1-125                      VTIMPKDI.......................   125
61677531|Peltospira_delicata/1-125                   VTIMPKDI.......................   125
61677527|Perotrochus_amabilis/1-125                  VTIMPKDI.......................   125
61677523|Nerita_polita/1-125                         VTIMPKDI.......................   125
61677517|Lepetodrilus_pustulosus/1-125               VTIMPKDI.......................   125
61677515|Lepetodrilus_elevatus/1-125                 VTIMPKDI.......................   125
61677511|Haliotis_midae/1-125                        VTIMPKDI.......................   125
61677507|Haliotis_virginea/1-125                     VTIMPKDI.......................   125
61677505|Haliotis_pustulata/1-125                    VTIMPKDI.......................   125
61677503|Haliotis_asinina/1-125                      VTIMPKDI.......................   125
61677501|Haliotis_jacnensis/1-125                    VTIMPKDI.......................   125
57232801|Grylloblattina_djakonov/1-125               VTIMPKDI.......................   125
57232799|Galloisiana_sp./1-125                       VTIMPKDI.......................   125
57232787|Auchenomus_sp./1-125                        VTIMPKDI.......................   125
57232785|Nala_tenuicornis/1-125                      VTIMPKDI.......................   125
consensus                                            VTIMPKDI
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
57232781|Anisolabididae_sp./1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
57232777|Auchenomus_forcipatus/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
57232775|Anisolabididae_sp./1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
57232773|Forcipula_decolyi/1-125       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
57232771|Euborellia_femoralis/1-125    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
57232769|Thekalabis_sp./1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
126309058|Monodelphis_domestica/1-148  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
148372457|Macquaria_novemaculeat/1-110  ......................AXK..STGGXAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCXIHXKR     110
45545248|Stenomantis_novaeguinea/1-109  ......................VN..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
52699653|Morulina_verrucosa/1-109      ......................RK..STXGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLXAIHAKR     109
223403477|Neriene_sp./1-109            ......................PE..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
257783593|Pomacea_diffusa/1-109        ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKS     108
126165815|Yaginumanis_wanlessi/1-108  ...................QQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....     108
4883755|Nebalia_sp./1-105              ........................IDGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
224814466|Macrophasma_biroi/1-104      ......................X..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....     104
58081635|Potamonautes_oderhi/1-102     ...............MARXKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............     102
58081671|Malagasya_sp./1-102           ...............MACTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............     102
91719060|Achelia_spicata/1-95          ......................L..SAGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVG.............      95
158324363|Platycnemis_pennipes/1-100   ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLSQDTN........     100
306975386|Selenops_candidus/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLSDDTNLCAIHAKR     109
consensus                                                 ****K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL**DTNL*******

logo

57232781|Anisolabididae_sp./1-125      VTIMPKDI.........................     125
57232777|Auchenomus_forcipatus/1-125   VTIMPKDI.........................     125
57232775|Anisolabididae_sp./1-125      VTIMPKDI.........................     125
57232773|Forcipula_decolyi/1-125       VTIMPKDI.........................     125
57232771|Euborellia_femoralis/1-125    VTIMPKDI.........................     125
57232769|Thekalabis_sp./1-125          VTIMPKDI.........................     125
126309058|Monodelphis_domestica/1-148  VTIMPKDIQLARRIRGIDEGSGLAFNCPPQF..     148
148372457|Macquaria_novemaculeat/1-110 ................................     110
45545248|Stenomantis_novaeguinea/1-109 ................................     109
52699653|Morulina_verrucosa/1-109      ................................     109
223403477|Neriene_sp./1-109            ................................     109
257783593|Pomacea_diffusa/1-109        V...............................     109
126165815|Yaginumanis_wanlessi/1-108   ................................     108
4883755|Nebalia_sp./1-105              ................................     105
224814466|Macrophasma_biroi/1-104      ................................     104
58081635|Potamonautes_oderhi/1-102     ................................     102
58081671|Malagasya_sp./1-102           ................................     102
91719060|Achelia_spicata/1-95          ................................      95
158324363|Platycnemis_pennipes/1-100   ................................     100
306975386|Selenops_candidus/1-109      ................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
4883747|Nipponentomon_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLSEDTNLCAIHAKR    109
196481294|Leptophlebia_intermedi/1-106  ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFE............    106
187948519|Euvola_chazaliei/1-113        ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEHQHLCAIHAKR    113
27923517|Agathemera_crassa/1-109        ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNS.......    109
90184764|Nesionixalus_thomensis/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLXGYLEDTNLXVIHAKR    109
90184772|Leptobrachium_hasseltii/1-109  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLGGLFEDTNLRAIHAKR    109
90184876|Craugastor_rhodopis/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYAGGLFEDTNLCXIHAKR    109
264687467|Madeleinea_pacis/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYXVGLFEDTNXXAIHAKR    109
91719030|Eurycyde_curvata/1-108         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEACLVGLFEDTNLCAIHAK.    108
91719062|Achelia_echinata/1-108         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYFVGLFEDTKLCAIHAK.    108
196481258|Austrophlebioides_sp./1-108  ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDX..........    108
158346162|Oxyopomyrmex_insularis/1-107  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYFVGLFEDTNLCAIHA..    107
62899588|Gecarcinucus_jacquemont/1-95   ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYDR...............     95
62899610|Pachygrapsus_marmoratus/1-102  ..............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............    102
62899594|Barytelphusa_jacquemont/1-102  ..............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............    102
58081693|Ceylonthelphusa_rugosa/1-102   ..............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............    102
58081655|Liberonautes_rubrigiman/1-102  ..............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............    102
196481322|Euthraulus_sp./1-103           ..............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVG.............    103
297040804|Callobius_sp./1-115            ..............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLLEDTXLCAIHA..    115
239579937|Sandokan_doriae/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFKDTNLCAIHAKR    109
consensus                                                 ****RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV****** *  ***
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logo

4883747|Nipponentomon_sp./1-109          ..................................    109
196481294|Leptophlebia_intermedi/1-106   ..................................    106
187948519|Euvola_chazaliei/1-113         ..................................    113
27923517|Agathemera_crassa/1-109         ..................................    109
90184764|Nesionixalus_thomensis/1-109    ..................................    109
90184772|Leptobrachium_hasseltii/1-109   ..................................    109
90184876|Craugastor_rhodopis/1-109       ..................................    109
264687467|Madeleinea_pacis/1-109         ..................................    109
91719030|Eurycyde_curvata/1-108          ..................................    108
91719062|Achelia_echinata/1-108          ..................................    108
196481258|Austrophlebioides_sp./1-108    ..................................    108
158346162|Oxyopomyrmex_insularis/1-107   ..................................    107
62899588|Gecarcinucus_jacquemont/1-95    ..................................     95
62899610|Pachygrapsus_marmoratus/1-102   ..................................    102
62899594|Barytelphusa_jacquemont/1-102   ..................................    102
58081693|Ceylonthelphusa_rugosa/1-102    ..................................    102
58081655|Liberonautes_rubrigiman/1-102   ..................................    102
196481322|Euthraulus_sp./1-103           ..................................    103
297040804|Callobius_sp./1-115            ..................................    115
239579937|Sandokan_doriae/1-109          ..................................    109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279885|Otitoma_sp./1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFKDTNLCAIHAKR   109
157673871|Mangora_maculata/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFKDTNLCAIHAKR   109
149286462|Theridion_posticatum/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFKDTNLCAIHAKR   109
161376262|Chernokrilus_misnomus/1-125 ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFHDTNLCAIHAKR   117
55741155|Purcellia_illustrans/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLXGLFEDTNLCAIHAKR   109
40796009|Siro_rubens/1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLXGLFEDTNLCAIHAKR   109
150247863|Musoniella_sp./1-125         ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLXGLFEDTNLCAIHAKR   117
297040786|Callobius_sp./1-111          ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLRAIHA..   111
297040788|Callobius_sp./1-109          ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLXAI....   109
297040772|Callobius_sp./1-108          ..............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDT.........   108
297040766|Callobius_olympus/1-108      ..............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDT.........   108
126165775|Holcolaetis_vellerea/1-100   ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAX...................   100
196481254|Atalophlebia_sp./1-108       ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGLFEDT.........   108
196481310|Paraleptophlebia_vaciv/1-111 ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGLFEDTNLQ......   111
196481238|Radima_sp./1-116             ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGLFEDTNLCAIHAK.   116
98374225|Dendrobates_tinctorius/1-109  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTXLCAIHAKR   109
98374189|Ameerega_trivittata/1-109     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTXLCAIHAKR   109
90184462|Lysapsus_laevis/1-109         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTXLCAIHAKR   109
90184756|Hydromantes_platycephal/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYWVGLLEDTNLCDIHEKR   109
98365401|Metagovea_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGLFXDTNLCAIHAKR   109
consensus                                                  ****RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA*LVGL**DT*L*******
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logo
160279885|Otitoma_sp./1-109          ..............................   109
157673871|Mangora_maculata/1-109     ..............................   109
149286462|Theridion_posticatum/1-109 ..............................   109
161376262|Chernokrilus_misnomus/1-125 VTIMPKDI......................   125
55741155|Purcellia_illustrans/1-109  ..............................   109
40796009|Siro_rubens/1-109           ..............................   109
150247863|Musoniella_sp./1-125       VTIMPKDI......................   125
297040786|Callobius_sp./1-111        ..............................   111
297040788|Callobius_sp./1-109        ..............................   109
297040772|Callobius_sp./1-108        ..............................   108
297040766|Callobius_olympus/1-108    ..............................   108
126165775|Holcolaetis_vellerea/1-100 ..............................   100
196481254|Atalophlebia_sp./1-108     ..............................   108
196481310|Paraleptophlebia_vaciv/1-111 ............................   111
196481238|Radima_sp./1-116           ..............................   116
98374225|Dendrobates_tinctorius/1-109 ............................   109
98374189|Ameerega_trivittata/1-109   ..............................   109
90184462|Lysapsus_laevis/1-109       ..............................   109
90184756|Hydromantes_platycephal/1-109 ...........................   109
98365401|Metagovea_sp./1-109         ..............................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
166092310|Aphantochilus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGLFEDTNLCAIHAKR   109
98365377|Rakaia_crypta/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGLFEDTNLCAIHAKR   109
98365375|Rakaia_solitaria/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGLFEDTNLCAIHAKR   109
90184408|Smilisca_phaeota/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGLFEDTNLCAIHAKR   109
62130982|Homalodisca_elongata/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGLFEDTNLCAIHAKR   109
281323538|Stylocellus_sp./1-95    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVG.............   95
158346046|Pheidole_rugulosa/1-107 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGLFEDTNLCAIHA..   107
110555239|Xysticus_sp./1-108       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGLFEDTNLCAIHAK.   108
62130970|Cuerna_gladiola/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAXLVGLFEDTNLCAIHAKX   109
297040894|Callobius_pictus/1-106  ...............MARSKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXE..........   106
109159297|Thalassophryne_amazoni/1-110 ......................ARK..STGGKAXRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
58199289|Badis_badis/1-110         ......................ARK..STGGKAXRKXLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
225183497|Rhantus_suturalis/1-95   ......................................GPKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   95
225183495|Rhantus_sp./1-95         ......................................GPKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   95
209394917|Aporrectodea_caliginos/1-109 .......................RK..STGGKAXRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
161376188|Cardioperla_lobata/1-118 ...................QKMRK..STGGKAXRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
194916007|Drosophila_erecta/1-129  ......................MRW..HLFLHAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
121296195|Paratropes_sp./1-109    ............................QAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   103
219923279|Hydrothelphusa_madagas/1-100 ............................APRRQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA...   100
223403465|Megadictyna_thilenii/1-109 .......................RK..STGGTAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                           R*  *****A*RKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA*LVGLFEDTNLCAIHAK*

logo
166092310|Aphantochilus_sp./1-109   ...............................   109
98365377|Rakaia_crypta/1-109       ...............................   109
98365375|Rakaia_solitaria/1-109    ...............................   109
90184408|Smilisca_phaeota/1-109    ...............................   109
62130982|Homalodisca_elongata/1-109 ..............................   109
281323538|Stylocellus_sp./1-95     ...............................   95
158346046|Pheidole_rugulosa/1-107  ...............................   107
110555239|Xysticus_sp./1-108       ...............................   108
62130970|Cuerna_gladiola/1-109     ...............................   109
297040894|Callobius_pictus/1-106   ...............................   106
109159297|Thalassophryne_amazoni/1-110 ...........................   110
58199289|Badis_badis/1-110         ...............................   110
225183497|Rhantus_suturalis/1-95   ...............................   95
225183495|Rhantus_sp./1-95         ...............................   95
209394917|Aporrectodea_caliginos/1-109 ...........................   109
161376188|Cardioperla_lobata/1-118 VTIMPK........................   118
194916007|Drosophila_erecta/1-129  VTIMPKDIQLARRIRGERA............   129
121296195|Paratropes_sp./1-109     VTIMPK........................   109
219923279|Hydrothelphusa_madagas/1-100 ...........................   100
223403465|Megadictyna_thilenii/1-109 .............................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 3 2 1
                                                      STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4 3 2 1
                                                      KQTARK
108795530|Megadictyna_sp./1-115                       ...................KQTARK..STGGTAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  113
47498322|Tagalina_sp./1-118                           ...................KQTARK..STGGSPPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  113
224814452|Erinaceophasma_vepres/1-105                 ........................GGXAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
224814534|Sceptrophasma_hispidul/1-106               ........................TGGXAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  106
224814464|Clonaria_conformans/1-106                  ........................TGGXAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  106
158324241|Perithemis_intensa/1-108                   ......................K..STGGXAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
90184334|Dendropsophus_minutus/1-109                 ......................RK..STGGXAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
50347014|Sepioteuthis_lessoniana/1-109               ......................RK..STGGXAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
109159303|Trichiurus_lepturus/1-110                  .....................ARK..STGGXAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
224814510|Phyllium_celebicum/1-102                   ........................XAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  102
257783306|Dendrothereua_nubila/1-109                 ......................RK..STGGXAPRNQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687517|Pseudolucia_shapiroi/1-108                 ......................K..SXGGKAPRXXLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
157102484|Brachyvatus_acuminatus/1-102               ........................STGGKAPREQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102636|Graptodytes_ignotus/1-102                  ........................STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102578|Stictotarsus_duodecimp/1-102               ........................STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
124488521|Hydrovatus_clypealis/1-102                 ........................STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
219923337|Parathelphusa_sarawake/1-105               ........................STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923335|Parathelphusa_pantheri/1-105                ........................STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923281|Madagapotamon_humberti/1-105               ........................STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923275|Stoliczia_bella/1-105                      ........................STGGKAPREQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
consensus                                             STGG APR QLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA**
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logo                                                  4 3 2 1
                                                      VT 4 3 2 1
108795530|Megadictyna_sp./1-115                       VT.............................  115
47498322|Tagalina_sp./1-118                           VTIMP..........................  118
224814452|Erinaceophasma_vepres/1-105                 ...............................  105
224814534|Sceptrophasma_hispidul/1-106                ...............................  106
224814464|Clonaria_conformans/1-106                  ...............................  106
158324241|Perithemis_intensa/1-108                   ...............................  108
90184334|Dendropsophus_minutus/1-109                 ...............................  109
50347014|Sepioteuthis_lessoniana/1-109               ...............................  109
109159303|Trichiurus_lepturus/1-110                  ...............................  110
224814510|Phyllium_celebicum/1-102                   ...............................  102
257783306|Dendrothereua_nubila/1-109                 ...............................  109
264687517|Pseudolucia_shapiroi/1-108                 ...............................  108
157102484|Brachyvatus_acuminatus/1-102               ...............................  102
157102636|Graptodytes_ignotus/1-102                  ...............................  102
157102578|Stictotarsus_duodecimp/1-102               ...............................  102
124488521|Hydrovatus_clypealis/1-102                 ...............................  102
219923337|Parathelphusa_sarawake/1-105               ...............................  105
219923335|Parathelphusa_pantheri/1-105               ...............................  105
219923281|Madagapotamon_humberti/1-105               ...............................  105
219923275|Stoliczia_bella/1-105                      ...............................  105
consensus
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X	non conserved
X	similar
X	$\geq$ 50% conserved
X	$\geq$ 80% conserved

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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158346142|Pheidole_xerophila/1-107      ......................RK..STGGKAPRXXLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158346010|Pheidole_pilifera/1-107        ......................RK..STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
282762270|Homalonychus_selenopoi/1-109  ......................RK..STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374133|Hyloxalus_insulatus/1-109      ......................RK..STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
84683137|Anelpistina_n./1-109           ......................RK..STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
109159056|Chaenopsis_alepidota/1-110    .....................ARK..STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
283857545|Selenocephalus_sp./1-117      ................KQTARK..STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
297040858|Callobius_sp./1-124           ..............MARSKQTARK..STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
149578658|Ornithorhynchus_anatin/1-136  ..............MARTKQTARK..STGGKAPRNQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
296124979|Lachesilla_forcepeta/1-110    ......................RK..STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296125023|Liposcelis_brunnea/1-110      ......................RK..STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
194173329|Aoraki_denticulata/1-109      ......................RX..STGGKAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
257783617|Asolene_megastoma/1-108       ............................GKAPRNQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   104
158324359|Erythromma_najas/1-108        ......................RK..STGGKAPRKHLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
68509551|Proboscidoplocia_sp./1-104     ...................................SFATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    98
281313150|Ascorhynchus_sp./1-98         ...............................QLAXKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    98
264687597|Zizula_hylax/1-109            ......................RK..STGGKAPRKQLAXKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374341|Ameerega_trivittata/1-109      ......................RK..STGGKAPRKQLAXKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
58199334|Paretroplus_cf./1-110          .....................ARK..STGGKAPRKQLAXKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
148372403|Liopropoma_eukrines/1-110     .....................ARX..STXGKAPRKQLAXKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
consensus                                R*  STGGKAPR*QLA*KA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158346142|Pheidole_xerophila/1-107      ..............................   107
158346010|Pheidole_pilifera/1-107        ..............................   107
282762270|Homalonychus_selenopoi/1-109  ..............................   109
98374133|Hyloxalus_insulatus/1-109      ..............................   109
84683137|Anelpistina_n./1-109           ..............................   109
109159056|Chaenopsis_alepidota/1-110    ..............................   110
283857545|Selenocephalus_sp./1-117      VTIM..........................   117
297040858|Callobius_sp./1-124           VTIMPKD.......................   124
149578658|Ornithorhynchus_anatin/1-136  VTIMPKDIQLARRIRGERA............   136
296124979|Lachesilla_forcepeta/1-110    V.............................   110
296125023|Liposcelis_brunnea/1-110      V.............................   110
194173329|Aoraki_denticulata/1-109      ..............................   109
257783617|Asolene_megastoma/1-108       VTIM..........................   108
158324359|Erythromma_najas/1-108        ..............................   108
68509551|Proboscidoplocia_sp./1-104     VTIMPK........................   104
281313150|Ascorhynchus_sp./1-98         ..............................    98
264687597|Zizula_hylax/1-109            ..............................   109
98374341|Ameerega_trivittata/1-109      ..............................   109
58199334|Paretroplus_cf./1-110          ..............................   110
148372403|Liopropoma_eukrines/1-110     ..............................   110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                   RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

208479672|Geophagus_brasiliensis/1-110   .....................ARK..STXGKAPRKQLAXXKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
262178960|Selenops_lindborgi/1-97     ..............................MATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    97
306975436|Selenops_sp./1-109           .....................RK..STGGKAPRKQXATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
262178640|Selenops_bifurcatus/1-109   .....................RK..STGGKAPRKQXATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184440|Exerodonta_chimalapa/1-109   .....................RK..STGGKAPRKQXATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
68509497|Caudatella_hystrix/1-125     ...............MARTKQTARK..STGGKAPRKQXATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
187948541|Leptopecten_latiauratu/1-113 ...................KQTARK..STGGKAPRKQLATKA.ACKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
56089801|Atherinomorus_lacunosus/1-110 .....................ARK..STGGKAXRKQLAXXKX.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
58199329|Paretroplus_cf./1-110         .....................ARK..STXGKAPRKQLXXXA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
109159080|Daector_quadrizonatus/1-110 .....................ARK..STXGKAPRKXLATKA.XRKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
91719114|Ammothella_tuberculata/1-109 .....................RK..STGGKAPRKQLASKV.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
166092258|Epidius_parvati/1-109       .....................RK..STGGKAPRKQLATKA.XXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
257786670|Rithrogena_sp./1-109        .....................RK..STGGKAPCKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
281323534|Stylocellus_sp./1-109       .....................RK..STGGKAPRXQXATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
306975640|Selenops_banksi/1-109       .....................RK..STGGKXPRKQLATKA.XRKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687549|Eicochrysops_hippocrat/1-109 .....................RK..STGGKAPRKQLATKX.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934632|Stagmomantis_sp./1-109      .....................RK..STGGKAPRKQLATKX.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934610|Polyspilota_aeruginosa/1-109 .....................RK..STGGKAPRKQLATKX.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065282|Grylloblatta_gurneyi/1-109   .....................RK..STGGKAPRKQLATKX.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
45545250|Stagmomantis_limbata/1-109   .....................RK..STGGKAPRKQLATNA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                                  RK  STGGKAPRKQ*ATK* ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

208479672|Geophagus_brasiliensis/1-110   ..............................   110
262178960|Selenops_lindborgi/1-97       ..............................    97
306975436|Selenops_sp./1-109            ..............................   109
262178640|Selenops_bifurcatus/1-109     ..............................   109
90184440|Exerodonta_chimalapa/1-109     ..............................   109
68509497|Caudatella_hystrix/1-125       VTIMPKDI......................   125
187948541|Leptopecten_latiauratu/1-113  ..............................   113
56089801|Atherinomorus_lacunosus/1-110  ..............................   110
58199329|Paretroplus_cf./1-110          ..............................   110
109159080|Daector_quadrizonatus/1-110   ..............................   110
91719114|Ammothella_tuberculata/1-109   ..............................   109
166092258|Epidius_parvati/1-109         ..............................   109
257786670|Rithrogena_sp./1-109          ..............................   109
281323534|Stylocellus_sp./1-109         ..............................   109
306975640|Selenops_banksi/1-109         ..............................   109
264687549|Eicochrysops_hippocrat/1-109  ..............................   109
255934632|Stagmomantis_sp./1-109        ..............................   109
255934610|Polyspilota_aeruginosa/1-109  ..............................   109
91065282|Grylloblatta_gurneyi/1-109     ..............................   109
45545250|Stagmomantis_limbata/1-109     ..............................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
119690054|Anelosimus_tungurahua/1-117   ....................KQTARK..STGGKAPRKQLATKA.ARMSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
262068527|Helophora_insignis/1-108   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYXVGLFXDTNLCAIHAK.   108
237513171|Facetotecta_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYXVGLFEDTXLXAIHAKR   109
4883754|Lasionectes_exleyi/1-107   .......................RX..STGGKAPRKQLATKA.XRKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
68509513|Macdunnoa_hipawinia/1-109   ...............MARTKQTARK..STGGKARSKQXATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   109
163638206|Dysdera_lucidipes/1-109   .......................RK..STGGKAPRKQLATKA.ARKNA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
118341056|Pomacea_bridgesi/1-91   ...............................KAPRKQLATKA.ARXXA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............   91
238817443|Drunella_pelosa/1-100   ................ARTKQTARK..STGGKAPCKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYL................   100
149286307|Calcisabella_piloseta/1-100   ....................................ATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   96
196175139|Enchophora_nigromacula/1-100   ....................................ATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   96
109134760|Dictyssa_sp./1-97   .......................................TKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   95
109134756|Aphelonema_sp./1-94   ........................................ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   92
45545294|Gyromantis_occidentalis/1-96   ....................................ATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   96
259157657|Zelandoperla_fenestrat/1-96   ....................................ATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   96
262178922|Selenops_lindborgi/1-96   ....................................ATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   96
219524033|Cherax_cuspidatus/1-95   .....................................TKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   95
259157677|Zelandoperla_decorata/1-95   .....................................TKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   95
262178778|Selenops_insularis/1-95   .....................................TKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   95
306975178|Selenops_sp./1-95   .....................................TKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   95
50347018|Architeuthis_dux/1-94   ......................................KA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   94
consensus                                                              *TKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK*

logo
119690054|Anelosimus_tungurahua/1-117   VTIM.............................   117
262068527|Helophora_insignis/1-108   ..............................   108
237513171|Facetotecta_sp./1-109   ..............................   109
4883754|Lasionectes_exleyi/1-107   ..............................   107
68509513|Macdunnoa_hipawinia/1-109   ..............................   109
163638206|Dysdera_lucidipes/1-109   ..............................   109
118341056|Pomacea_bridgesi/1-91   ..............................   91
238817443|Drunella_pelosa/1-100   ..............................   100
149286307|Calcisabella_piloseta/1-100   VTIM.............................   100
196175139|Enchophora_nigromacula/1-100   VTIM.............................   100
109134760|Dictyssa_sp./1-97   VT............................   97
109134756|Aphelonema_sp./1-94   VT............................   94
45545294|Gyromantis_occidentalis/1-96   ..............................   96
259157657|Zelandoperla_fenestrat/1-96   ..............................   96
262178922|Selenops_lindborgi/1-96   ..............................   96
219524033|Cherax_cuspidatus/1-95   ..............................   95
259157677|Zelandoperla_decorata/1-95   ..............................   95
262178778|Selenops_insularis/1-95   ..............................   95
306975178|Selenops_sp./1-95   ..............................   95
50347018|Architeuthis_dux/1-94   ..............................   94
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
209394953|Aporrectodea_tubercula/1-94
306975194|Selenops_geraldinae/1-94
33086774|Styposis_selis/1-92
110627848|Ophelina_acuminata/1-92
209970244|Ancistroteuthis_lichte/1-92
294805015|Holcoperla_magna/1-92
294805061|Spaniocerca_zwicki/1-92
262178984|Selenops_lindborgi/1-91
228535456|Neoconocephalus_puncti/1-101
228535420|Neoconocephalus_exilis/1-100
228535384|Neoconocephalus_affini/1-98
228535412|Neoconocephalus_ensige/1-96
228535428|Neoconocephalus_maxill/1-96
196175161|Enchophora_sanguinea/1-94
167515098|Sipunculus_sp./1-91
228535388|Neoconocephalus_affini/1-94
239736611|Tricorythus_sp./1-99
161376220|Paranemoura_claasseni/1-100
297040812|Callobius_rothi/1-101
228535482|Neoconocephalus_spiza/1-102
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
logo
209394953|Aporrectodea_tubercula/1-94
306975194|Selenops_geraldinae/1-94
33086774|Styposis_selis/1-92
110627848|Ophelina_acuminata/1-92
209970244|Ancistroteuthis_lichte/1-92
294805015|Holcoperla_magna/1-92
294805061|Spaniocerca_zwicki/1-92
262178984|Selenops_lindborgi/1-91
228535456|Neoconocephalus_puncti/1-101
228535420|Neoconocephalus_exilis/1-100
228535384|Neoconocephalus_affini/1-98
228535412|Neoconocephalus_ensige/1-96
228535428|Neoconocephalus_maxill/1-96
196175161|Enchophora_sanguinea/1-94
167515098|Sipunculus_sp./1-91
228535388|Neoconocephalus_affini/1-94
239736611|Tricorythus_sp./1-99
161376220|Paranemoura_claasseni/1-100
297040812|Callobius_rothi/1-101
228535482|Neoconocephalus_spiza/1-102
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
228535398|Neoconocephalus_bivoca/1-102   ..........................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     97
150247771|Orthoderella_ornata/1-102   ........................................KA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     94
62899600|Barytelphusa_cuniculari/1-102   ...............MAXYKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............    102
62899602|Oziothelphusa_senex/1-102   ...............MAXYKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............    102
27923459|Anchiale_briareus/1-103   ................................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
109134758|Danepteryx_sp./1-102   ................................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
251824696|Calcinus_latens/1-102   ................................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
251824678|Calcinus_explorator/1-101   .................................RKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     100
107860014|Costasiella_ocellifera/1-101   ................................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     101
161376244|Austrocercoides_zwicki/1-101   ................................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     101
229270316|Eduarctus_martensii/1-101   ................................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     101
229270318|Ibacus_novemdentatus/1-101   ................................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     101
229270320|Jasus_edwardsii/1-101   ................................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     101
229270322|Justitia_longimana/1-101   ................................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     101
229270324|Jasus_tristani/1-101   ................................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     101
229270326|Justitia_japonica/1-101   ................................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     101
229270328|Justitia_vericeli/1-101   ................................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     101
229270330|Linuparus_sordidus/1-101   ................................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     101
229270332|Linuparus_trigonus/1-101   ................................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     101
229270334|Palinurus_elephas/1-101   ................................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     101
consensus                                                          *PRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK

logo

228535398|Neoconocephalus_bivoca/1-102   VTIMP.............................     102
150247771|Orthoderella_ornata/1-102   VTIMPKDI........................     102
62899600|Barytelphusa_cuniculari/1-102   ................................     102
62899602|Oziothelphusa_senex/1-102   ................................     102
27923459|Anchiale_briareus/1-103   VT..............................     103
109134758|Danepteryx_sp./1-102   V...............................     102
251824696|Calcinus_latens/1-102   V...............................     102
251824678|Calcinus_explorator/1-101   V...............................     101
107860014|Costasiella_ocellifera/1-101   ................................     101
161376244|Austrocercoides_zwicki/1-101   ................................     101
229270316|Eduarctus_martensii/1-101   ................................     101
229270318|Ibacus_novemdentatus/1-101   ................................     101
229270320|Jasus_edwardsii/1-101   ................................     101
229270322|Justitia_longimana/1-101   ................................     101
229270324|Jasus_tristani/1-101   ................................     101
229270326|Justitia_japonica/1-101   ................................     101
229270328|Justitia_vericeli/1-101   ................................     101
229270330|Linuparus_sordidus/1-101   ................................     101
229270332|Linuparus_trigonus/1-101   ................................     101
229270334|Palinurus_elephas/1-101   ................................     101
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
229270336|Palinustus_holthuisi/1-101
229270338|Palinustus_unicornutus/1-101
229270340|Panulirus_stimpsoni/1-101
229270342|Panulirus_longipes/1-101
229270344|Panulirus_ornatus/1-101
229270346|Panulirus_polyphagus/1-101
229270348|Panulirus_versicolor/1-101
229270350|Palibythus_magnificus/1-101
229270352|Polycheles_amemiyai/1-101
229270354|Projasus_bahamondei/1-101
229270356|Puerulus_angulatus/1-101
229270358|Puerulus_velutinus/1-101
229270360|Palinurellus_wieneckii/1-101
229270362|Jasus_verreauxi/1-101
229270364|Scammarctus_batei/1-101
229270366|Enoplometopus_debelius/1-101
219923343|Phricotelphusa_amnicol/1-100
196481308|Paraleptophlebia_subma/1-109
110555265|Galianora_bryicola/1-108
219923367|Siamthelphusa_sp./1-100
consensus
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229270336|Palinustus_holthuisi/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
229270338|Palinustus_unicornutus/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
229270340|Panulirus_stimpsoni/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
229270342|Panulirus_longipes/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
229270344|Panulirus_ornatus/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
229270346|Panulirus_polyphagus/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
229270348|Panulirus_versicolor/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
229270350|Palibythus_magnificus/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
229270352|Polycheles_amemiyai/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
229270354|Projasus_bahamondei/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
229270356|Puerulus_angulatus/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
229270358|Puerulus_velutinus/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
229270360|Palinurellus_wieneckii/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
229270362|Jasus_verreauxi/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
229270364|Scammarctus_batei/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
229270366|Enoplometopus_debelius/1-101   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   101
219923343|Phricotelphusa_amnicol/1-100   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   100
196481308|Paraleptophlebia_subma/1-109   ..........RK..STGXKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAXR   109
110555265|Galianora_bryicola/1-108   ..........RK..STGXKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   108
219923367|Siamthelphusa_sp./1-100   ..........APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   100
consensus                                   APRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK
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logo

229270336|Palinustus_holthuisi/1-101   ..............................   101
229270338|Palinustus_unicornutus/1-101   ..............................   101
229270340|Panulirus_stimpsoni/1-101   ..............................   101
229270342|Panulirus_longipes/1-101   ..............................   101
229270344|Panulirus_ornatus/1-101   ..............................   101
229270346|Panulirus_polyphagus/1-101   ..............................   101
229270348|Panulirus_versicolor/1-101   ..............................   101
229270350|Palibythus_magnificus/1-101   ..............................   101
229270352|Polycheles_amemiyai/1-101   ..............................   101
229270354|Projasus_bahamondei/1-101   ..............................   101
229270356|Puerulus_angulatus/1-101   ..............................   101
229270358|Puerulus_velutinus/1-101   ..............................   101
229270360|Palinurellus_wieneckii/1-101   ..............................   101
229270362|Jasus_verreauxi/1-101   ..............................   101
229270364|Scammarctus_batei/1-101   ..............................   101
229270366|Enoplometopus_debelius/1-101   ..............................   101
219923343|Phricotelphusa_amnicol/1-100   ..............................   100
196481308|Paraleptophlebia_subma/1-109   ..............................   109
110555265|Galianora_bryicola/1-108   ..............................   108
219923367|Siamthelphusa_sp./1-100   ..............................   100
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158327354|Palmorchestia_hypogaea/1-103   .....................................ATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   96
110555267|Thrandina_parocula/1-103   ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
27923511|Oncotophasma_martini/1-105   ...............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   103
156371429|Nematostella_vectensis/1-120   ................................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   101
195365502|Drosophila_sechellia/1-117   ....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   98
195368582|Drosophila_sechellia/1-112   .......................................A.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   93
161376236|Desmonemoura_brevis/1-96    ........................................A..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   88
240015306|Pseudosaldula_sp./1-93      .......................................KA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   93
19850226|Amphicteis_dalmatica/1-96   ...............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   96
219923399|Vanni_malabarica/1-99      ................................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   99
224814412|Anisomorpha_buprestoid/1-99 ................................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   99
262178724|Selenops_insularis/1-95     .................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....   95
196175149|Copidocephala_guttata/1-101 ...............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   101
3002595|Aplysia_cf./1-91             ...............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............   91
3002599|Anadara_trapezia/1-91         ...............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............   91
3002601|Ataxocerithium_sp./1-91       ...............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............   91
3002605|Bullina_lineata/1-91          ...............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............   91
3002607|Cypraea_annulus/1-91          ...............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............   91
3002609|Coccopigya_hispida/1-91       ...............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............   91
3002611|Campanile_symbolicum/1-91     ...............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............   91
consensus                             ...............................*****QLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF**********

logo                                  VTIMPKDIQLARRIRGERA

158327354|Palmorchestia_hypogaea/1-103   VTIMPKD..........................   103
110555267|Thrandina_parocula/1-103       V...........................   103
27923511|Oncotophasma_martini/1-105      VT..........................   105
156371429|Nematostella_vectensis/1-120   VTIMPKDIQLARRIRGERA.........   120
195365502|Drosophila_sechellia/1-117     VTIMPKDIQLARRIRGERA.........   117
195368582|Drosophila_sechellia/1-112     VTIMPKDIQLARRIRGERA.........   112
161376236|Desmonemoura_brevis/1-96       VTIMPKDI....................   96
240015306|Pseudosaldula_sp./1-93         ............................   93
19850226|Amphicteis_dalmatica/1-96       ............................   96
219923399|Vanni_malabarica/1-99          ............................   99
224814412|Anisomorpha_buprestoid/1-99    ............................   99
262178724|Selenops_insularis/1-95        ............................   95
196175149|Copidocephala_guttata/1-101    ............................   101
3002595|Aplysia_cf./1-91                 ............................   91
3002599|Anadara_trapezia/1-91            ............................   91
3002601|Ataxocerithium_sp./1-91          ............................   91
3002605|Bullina_lineata/1-91             ............................   91
3002607|Cypraea_annulus/1-91             ............................   91
3002609|Coccopigya_hispida/1-91          ............................   91
3002611|Campanile_symbolicum/1-91        ............................   91
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
3002615|Cornirostra_pellucida/1-91      ..............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............  91
3002617|Cabestana_spengleri/1-91        ..............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............  91
3002619|Cellana_tramoserica/1-91        ..............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............  91
3002623|Depressigyra_globulus/1-91      ..............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............  91
3002625|Dicathais_orbita/1-91           ..............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............  91
3002627|Epitonium_cf./1-91              ..............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............  91
3002631|Hedleyoconcha_delta/1-91        ..............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............  91
3002639|Mitra_cucumerina/1-91           ..............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............  91
3002645|Notocrater_houbricki/1-91       ..............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............  91
3002651|Notoacmea_petterdi/1-91         ..............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............  91
3002653|Allonautilus_scrobiculat/1-91   ..............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............  91
3002655|Austrolittorina_unifasci/1-91   ..............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............  91
70609228|Leiognathus_fasciatus/1-110    ......................ARK..STXGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
158829345|Icerya_assamensis/1-110       ......................ARK..STXGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
98374115|Hyloxalus_elachyhistus/1-109   ......................RK..STXGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
157783421|Psocidae_sp./1-105            ............................GKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  104
156958866|Latheticus_oryzae/1-99        ............................GKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  99
262178800|Selenops_insularis/1-91       ............................GKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............  91
3002661|Philippia_lutea/1-91            ..............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............  91
3002665|Thylacodes_sp./1-91             ..............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............  91
consensus                                                              KAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF

logo

3002615|Cornirostra_pellucida/1-91      ..................................  91
3002617|Cabestana_spengleri/1-91        ..................................  91
3002619|Cellana_tramoserica/1-91        ..................................  91
3002623|Depressigyra_globulus/1-91      ..................................  91
3002625|Dicathais_orbita/1-91           ..................................  91
3002627|Epitonium_cf./1-91              ..................................  91
3002631|Hedleyoconcha_delta/1-91        ..................................  91
3002639|Mitra_cucumerina/1-91           ..................................  91
3002645|Notocrater_houbricki/1-91       ..................................  91
3002651|Notoacmea_petterdi/1-91         ..................................  91
3002653|Allonautilus_scrobiculat/1-91   ..................................  91
3002655|Austrolittorina_unifasci/1-91   ..................................  91
70609228|Leiognathus_fasciatus/1-110    ..................................  110
158829345|Icerya_assamensis/1-110       ..................................  110
98374115|Hyloxalus_elachyhistus/1-109   ..................................  109
157783421|Psocidae_sp./1-105            V.................................  105
156958866|Latheticus_oryzae/1-99        ..................................  99
262178800|Selenops_insularis/1-91       ..................................  91
3002661|Philippia_lutea/1-91            ..................................  91
3002665|Thylacodes_sp./1-91             ..................................  91
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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34013748|Chaquihua_sp./1-104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
34002667|Strombus_luhuanus/1-91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
34002669|Salinator_solida/1-91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
3002671|Siphonaria_zelandica/1-91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
3002673|Trichomya_hirsuta/1-91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
82561548|Cellana_cf./1-91                                                                                                                                
118341058|Maoriculpus_roseus/1-91                                                                                
118341060|Crassitoniella_flammea/1-91                                                                
118341064|Xenophora_indica/1-91                                                                
118341066|Antisabia_foliacea/1-91                                                                
118341068|Bostrycapulus_pritzker/1-91                                                                
262178804|Selenops_insularis/1-94                                                                
118341070|Conuber_melanostoma/1-91                                                                
118341072|Tonna_cerevisina/1-91                                                                
118341074|Cymbiolista_hunteri/1-91                                                                
223636007|Thrips_palmi/1-100                                                                
225548444|Sphaeroma_terebrans/1-100                                                                
225548450|Sphaeroma_sp./1-100                                                                
225548456|Sphaeroma_sp./1-100                                                                
228535392|Neoconocephalus_affini/1-100                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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34013748|Chaquihua_sp./1-104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
3002667|Strombus_luhuanus/1-91                                                                                                                                
3002669|Salinator_solida/1-91                                                                                                                                
3002671|Siphonaria_zelandica/1-91                                                                                                                                
3002673|Trichomya_hirsuta/1-91                                                                                                                                
82561548|Cellana_cf./1-91                                                                                                                                
118341058|Maoriculpus_roseus/1-91                                                                                                                                
118341060|Crassitoniella_flammea/1-91                                                                                                                                
118341064|Xenophora_indica/1-91                                                                                                                                
118341066|Antisabia_foliacea/1-91                                                                                                                                
118341068|Bostrycapulus_pritzker/1-91                                                                                                                                
262178804|Selenops_insularis/1-94                                                                                                                                
118341070|Conuber_melanostoma/1-91                                                                                                                                
118341072|Tonna_cerevisina/1-91                                                                                                                                
118341074|Cymbiolista_hunteri/1-91                                                                                                                                
223636007|Thrips_palmi/1-100                                                                                                                                
225548444|Sphaeroma_terebrans/1-100                                                                                                                                
225548450|Sphaeroma_sp./1-100                                                                                                                                
225548456|Sphaeroma_sp./1-100                                                                                                                                
228535392|Neoconocephalus_affini/1-100                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
228535410|Neoconocephalus_ensige/1-100   .....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      98
228535414|Neoconocephalus_exilis/1-100   .....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      98
228535430|Neoconocephalus_maxill/1-100   .....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      98
228535436|Neoconocephalus_melano/1-100   .....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      98
228535486|Neoconocephalus_spiza/1-100    .....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      98
228535494|Neoconocephalus_triops/1-100   .....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      98
228535394|Neoconocephalus_affini/1-99    .....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      98
228535488|Neoconocephalus_triops/1-99    .....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      98
257783336|Allothereua_maculata/1-109     .......................RK..SIGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
308106294|Rhampsinitus_sp./1-109         .......................RK..SIGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
170321705|Copelatus_sp./1-103            ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     103
219923273|Potamon_persicum/1-103         ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     103
4883758|Branchinella_sp./1-102           ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...     102
170321715|Aglymbus_nr./1-102             ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...     102
53828117|Pintalia_alta/1-101             ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....     101
262178802|Selenops_insularis/1-91        ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVG.............      91
256387129|Glottidia_sp./1-92             ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............      92
256387139|Enteropneusta_sp./1-92         ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............      92
256387141|Hemichordata_sp./1-92          ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............      92
290465461|Ctenomorpha_sp./1-104          ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     104
consensus                                                            *******QLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI****

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
228535410|Neoconocephalus_ensige/1-100   VT.............................     100
228535414|Neoconocephalus_exilis/1-100   VT.............................     100
228535430|Neoconocephalus_maxill/1-100   VT.............................     100
228535436|Neoconocephalus_melano/1-100   VT.............................     100
228535486|Neoconocephalus_spiza/1-100    VT.............................     100
228535494|Neoconocephalus_triops/1-100   VT.............................     100
228535394|Neoconocephalus_affini/1-99    V..............................      99
228535488|Neoconocephalus_triops/1-99    V..............................      99
257783336|Allothereua_maculata/1-109     .............................     109
308106294|Rhampsinitus_sp./1-109         .............................     109
170321705|Copelatus_sp./1-103            .............................     103
219923273|Potamon_persicum/1-103         .............................     103
4883758|Branchinella_sp./1-102           .............................     102
170321715|Aglymbus_nr./1-102             .............................     102
53828117|Pintalia_alta/1-101             .............................     101
262178802|Selenops_insularis/1-91        .............................      91
256387129|Glottidia_sp./1-92             .............................      92
256387139|Enteropneusta_sp./1-92         .............................      92
256387141|Hemichordata_sp./1-92          .............................      92
290465461|Ctenomorpha_sp./1-104          .............................     104
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297039132|Zeuxo_normani/1-97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157011483|Isogenoides_frontalis/1-107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
68509501|Coloburiscoides_sp./1-106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158327346|Palmorchestia_hypogaea/1-105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
149286325|Protolaeospira_tricost/1-104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
238817461|Eurylophella_versimili/1-104                                                                                                                                
228535378|Belocephalus_davisi/1-103                                                                                
228535380|Bucrates_malivolans/1-103                                                
228535396|Neoconocephalus_bivoca/1-103                                
228535404|Neoconocephalus_caudel/1-103                
228535406|Neoconocephalus_ensige/1-103                
228535426|Neoconocephalus_maxill/1-103                
228535440|Neoconocephalus_nebras/1-103                
228535450|Neoconocephalus_palust/1-103                
228535452|Neoconocephalus_puncti/1-103                
228535462|Neoconocephalus_retusu/1-103                
228535468|Neoconocephalus_robust/1-103                
228535478|Neoconocephalus_satura/1-103                
228535496|Neoconocephalus_triops/1-103                
228535508|Neoconocephalus_velox/1-103                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297039132|Zeuxo_normani/1-97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157011483|Isogenoides_frontalis/1-107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
68509501|Coloburiscoides_sp./1-106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158327346|Palmorchestia_hypogaea/1-105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
149286325|Protolaeospira_tricost/1-104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
238817461|Eurylophella_versimili/1-104                                                                                                                                
228535378|Belocephalus_davisi/1-103                                                                                
228535380|Bucrates_malivolans/1-103                                                
228535396|Neoconocephalus_bivoca/1-103                                
228535404|Neoconocephalus_caudel/1-103                
228535406|Neoconocephalus_ensige/1-103                
228535426|Neoconocephalus_maxill/1-103                
228535440|Neoconocephalus_nebras/1-103                
228535450|Neoconocephalus_palust/1-103                
228535452|Neoconocephalus_puncti/1-103                
228535462|Neoconocephalus_retusu/1-103                
228535468|Neoconocephalus_robust/1-103                
228535478|Neoconocephalus_satura/1-103                
228535496|Neoconocephalus_triops/1-103                
228535508|Neoconocephalus_velox/1-103                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                 4 ARTKQTARK STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                     3                                                                                                                                                 3
                                                     2                                                                                                                                                 2
                                                     1                                                                                                                                                 1
188037152|Archisepsis_diversifor/1-102               .....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    98
228535386|Neoconocephalus_affini/1-102               .....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    98
228535402|Neoconocephalus_caudel/1-102               .....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    98
170053459|Culex_quinquefasciatus/1-151              MRPLRVFEYKSTSIAMARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   132
158284457|Anopheles_gambiae/1-135                   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
350633|Homo_sapiens/1-135                           ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
119850953|Mus_musculus/1-133                         ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
195177525|Drosophila_persimilis/1-130               .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
195100559|Drosophila_grimshawi/1-125                ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   106
158327370|Orchestia_sp./1-105                        ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFE...........   105
255934506|Liturgusa_sp./1-93                         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYL................    93
262178716|Selenops_insularis/1-93                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYL................    93
306975234|Selenops_sp./1-93                          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYL................    93
306975598|Selenopidae_gen./1-93                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYL................    93
90184774|Phrynobatrachus_calcara/1-91                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA..................    91
262179202|Selenops_micropalpus/1-91                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA..................    91
306975478|Selenops_sp./1-91                          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA..................    91
27923411|Gromphadorhina_portento/1-124               ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
27923413|Supella_longipalpa/1-124                    ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
27923415|Doru_spiculiferum/1-124                     ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
consensus                                                                      RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYL***************
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logo                                                 4 VTIMPKDIQLARRIRGERA 4
                                                     3                     3
                                                     2                     2
                                                     1                     1
188037152|Archisepsis_diversifor/1-102               VTIM...........................   102
228535386|Neoconocephalus_affini/1-102               VTIM...........................   102
228535402|Neoconocephalus_caudel/1-102               VTIM...........................   102
170053459|Culex_quinquefasciatus/1-151               VTIMPKDIQLARRIRGERA............   151
158284457|Anopheles_gambiae/1-135                    VTIMPKDIQLARRIRGERA............   135
350633|Homo_sapiens/1-135                            VTIMPKDIQLARRIRGERA............   135
119850953|Mus_musculus/1-133                         VTIMPKDIQLARRIRGERA............   133
195177525|Drosophila_persimilis/1-130                VTIMPKDIQLARRIRGERA............   130
195100559|Drosophila_grimshawi/1-125                 VTIMPKDIQLARRIRGERA............   125
158327370|Orchestia_sp./1-105                        ..............................   105
255934506|Liturgusa_sp./1-93                         ..............................    93
262178716|Selenops_insularis/1-93                    ..............................    93
306975234|Selenops_sp./1-93                          ..............................    93
306975598|Selenopidae_gen./1-93                      ..............................    93
90184774|Phrynobatrachus_calcara/1-91                ..............................    91
262179202|Selenops_micropalpus/1-91                  ..............................    91
306975478|Selenops_sp./1-91                          ..............................    91
27923411|Gromphadorhina_portento/1-124               VTIMPKDI.......................   124
27923413|Supella_longipalpa/1-124                    VTIMPKDI.......................   124
27923415|Doru_spiculiferum/1-124                     VTIMPKDI.......................   124
consensus                                            ****
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                 4 ARTKQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                     3                                                                                                                                                 3
                                                     2                                                                                                                                                 2
                                                     1                                                                                                                                                 1
27923417|Echinosoma_sp./1-124                        ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923419|Chelisoches_morio/1-124                    ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923421|Oligotoma_nigra/1-124                      ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923423|Teratembia_n./1-124                         ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923425|Hexagenia_sp./1-124                        ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923427|Cinygmula_sp./1-124                        ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923433|Tenodera_aridifolia/1-124                  ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923435|Ophiogomphus_severus/1-124                 ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923437|Argia_vivida/1-124                         ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923439|Stenopelmatus_fuscus/1-124                 ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923441|Melanoplus_sp./1-124                       ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923443|Pterophylla_camellifoli/1-124               ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923445|Isoperla_davisi/1-124                       ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923447|Plumiperla_diversa/1-124                   ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923449|Diapheromera_femorata/1-124                ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923455|Eurycantha_insularis/1-124                 ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
27923461|Heteropteryx_dilatata/1-124                 ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
161376286|Cosumnoperla_hypocrena/1-104              ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL.............    104
58081607|Platythelphusa_armata/1-102                ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............    102
58081609|Potamonautes_brincki/1-102                 ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............    102
consensus                                                         ARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                 4 VTIMPKDI 4
                                                     3          3
                                                     2          2
                                                     1          1
27923417|Echinosoma_sp./1-124                        VTIMPKDI.......................    124
27923419|Chelisoches_morio/1-124                     VTIMPKDI.......................    124
27923421|Oligotoma_nigra/1-124                       VTIMPKDI.......................    124
27923423|Teratembia_n./1-124                         VTIMPKDI.......................    124
27923425|Hexagenia_sp./1-124                         VTIMPKDI.......................    124
27923427|Cinygmula_sp./1-124                         VTIMPKDI.......................    124
27923433|Tenodera_aridifolia/1-124                   VTIMPKDI.......................    124
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27923443|Pterophylla_camellifoli/1-124               VTIMPKDI.......................    124
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27923447|Plumiperla_diversa/1-124                    VTIMPKDI.......................    124
27923449|Diapheromera_femorata/1-124                 VTIMPKDI.......................    124
27923455|Eurycantha_insularis/1-124                  VTIMPKDI.......................    124
27923461|Heteropteryx_dilatata/1-124                 VTIMPKDI.......................    124
161376286|Cosumnoperla_hypocrena/1-104               ................................    104
58081607|Platythelphusa_armata/1-102                 ................................    102
58081609|Potamonautes_brincki/1-102                  ................................    102
consensus                                            VTIMPKDI
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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58081611|Potamonautes_calcaratus/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081613|Potamonautes_clarus/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081615|Potamonautes_dentatus/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081617|Potamonautes_depressus/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081619|Potamonautes_ecorssei/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081623|Potamonautes_granularis/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081625|Potamonautes_lirrangens/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081629|Potamonautes_sp./1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081631|Potamonautes_niloticus/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081633|Potamonautes_obesus/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081637|Potamonautes_parvispina/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081639|Potamonautes_parvicorpu/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081641|Potamonautes_perlatus/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081643|Potamonautes_platynotus/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081647|Potamonautes_sidneyi/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081649|Potamonautes_unispinus/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081651|Potamonautes_warreni/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081653|Sudanonautes_floweri/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081659|Seychellum_alluaudi/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081661|Hydrothelphusa_agilis/1-102  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
consensus                                            MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV
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                                                     2 ┤                                 ├ 2
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58081611|Potamonautes_calcaratus/1-102  ..................................  102
58081613|Potamonautes_clarus/1-102  ..................................  102
58081615|Potamonautes_dentatus/1-102  ..................................  102
58081617|Potamonautes_depressus/1-102  ..................................  102
58081619|Potamonautes_ecorssei/1-102  ..................................  102
58081623|Potamonautes_granularis/1-102  ..................................  102
58081625|Potamonautes_lirrangens/1-102  ..................................  102
58081629|Potamonautes_sp./1-102  ..................................  102
58081631|Potamonautes_niloticus/1-102  ..................................  102
58081633|Potamonautes_obesus/1-102  ..................................  102
58081637|Potamonautes_parvispina/1-102  ..................................  102
58081639|Potamonautes_parvicorpu/1-102  ..................................  102
58081641|Potamonautes_perlatus/1-102  ..................................  102
58081643|Potamonautes_platynotus/1-102  ..................................  102
58081647|Potamonautes_sidneyi/1-102  ..................................  102
58081649|Potamonautes_unispinus/1-102  ..................................  102
58081651|Potamonautes_warreni/1-102  ..................................  102
58081653|Sudanonautes_floweri/1-102  ..................................  102
58081659|Seychellum_alluaudi/1-102  ..................................  102
58081661|Hydrothelphusa_agilis/1-102  ..................................  102
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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58081663|Hydrothelphusa_sp./1-102          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081665|Hydrothelphusa_goudoti/1-102       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081667|Hydrothelphusa_madagasc/1-102     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081669|Madagapotamon_humberti/1-102      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081679|Skelosophusa_eumeces/1-102        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081685|Johora_tiomanensis/1-102          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081689|Geothelphusa_sp./1-102            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081691|Geothelphusa_albogilva/1-102      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081696|Parathelphusa_sp./1-102           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081698|Rouxana_sp./1-102                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
297040792|Callobius_bennetti/1-115         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHA..  115
297040762|Callobius_severus/1-106          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXE...........  106
297040760|Callobius_paynei/1-108           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDT.........  108
297040764|Callobius_nevadensis/1-108       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDT.........  108
297040768|Callobius_olympus/1-108          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDT.........  108
58081700|Rouxana_sp./1-102                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081702|Phricothelphusa_limula/1-102      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
58081706|Guinotia_dentata/1-102            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
196481222|Radima_sp./1-102                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV...............  102
150247823|Gildella_suavis/1-99             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA...............   99
consensus                                   MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV
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3 ┤                                 ┌ 3
2 ┤                                 ┌ 2
1 ┘                                 └ 1

58081663|Hydrothelphusa_sp./1-102          ................................  102
58081665|Hydrothelphusa_goudoti/1-102      ................................  102
58081667|Hydrothelphusa_madagasc/1-102     ................................  102
58081669|Madagapotamon_humberti/1-102      ................................  102
58081679|Skelosophusa_eumeces/1-102        ................................  102
58081685|Johora_tiomanensis/1-102          ................................  102
58081689|Geothelphusa_sp./1-102            ................................  102
58081691|Geothelphusa_albogilva/1-102      ................................  102
58081696|Parathelphusa_sp./1-102           ................................  102
58081698|Rouxana_sp./1-102                 ................................  102
297040792|Callobius_bennetti/1-115         ................................  115
297040762|Callobius_severus/1-106          ................................  106
297040760|Callobius_paynei/1-108           ................................  108
297040764|Callobius_nevadensis/1-108       ................................  108
297040768|Callobius_olympus/1-108          ................................  108
58081700|Rouxana_sp./1-102                 ................................  102
58081702|Phricothelphusa_limula/1-102      ................................  102
58081706|Guinotia_dentata/1-102            ................................  102
196481222|Radima_sp./1-102                 ................................  102
150247823|Gildella_suavis/1-99             ................................   99
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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                                                                                                                                                                                                                                                                                                                                                                                              
196481278|Nousia_bella/1-99                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA..................  99
196481282|Penaphlebia_barriai/1-99            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA..................  99
196481286|Penaphlebia_vinosa/1-99             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA..................  99
196481288|Tepakia_caligata/1-99               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA..................  99
196481316|Habrophlebiodes_americ/1-99          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA..................  99
196481336|Thraulodes_sp./1-99                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA..................  99
196481338|Traverella_albertana/1-99           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA..................  99
196481348|Isonychia_sp./1-99                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA..................  99
220980669|Macrobrachium_fukienen/1-104         ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTN........ 104
149286321|Protula_tubularia/1-115              ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHAKR 113
297040802|Callobius_sp./1-121                .................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHAKR 114
297040818|Callobius_klamath/1-117             ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHAKR 113
70609162|Scomberoides_lysan/1-110              ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHAKR 110
109159198|Oligoplites_altus/1-110              ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHAKR 110
109159309|Trixiphichthys_weberi/1-110          ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHAKR 110
98374193|Ameerega_hahneli/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHAKR 109
98374291|Colostethus_fraterdanie/1-109         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHAKR 109
255934568|Pyrgomantis_nasuta/1-109             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHAKR 109
262178798|Selenops_insularis/1-109             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHAKR 109
224814522|Podacanthus_wilkinsoni/1-105         .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIH... 105
consensus                                                        ****RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA*****************

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196481278|Nousia_bella/1-99                  ..................................  99
196481282|Penaphlebia_barriai/1-99            ..................................  99
196481286|Penaphlebia_vinosa/1-99             ..................................  99
196481288|Tepakia_caligata/1-99               ..................................  99
196481316|Habrophlebiodes_americ/1-99          ..................................  99
196481336|Thraulodes_sp./1-99                 ..................................  99
196481338|Traverella_albertana/1-99           ..................................  99
196481348|Isonychia_sp./1-99                  ..................................  99
220980669|Macrobrachium_fukienen/1-104         ..................................  104
149286321|Protula_tubularia/1-115              VT................................  115
297040802|Callobius_sp./1-121                  VTIMPKD...........................  121
297040818|Callobius_klamath/1-117              VTIM..............................  117
70609162|Scomberoides_lysan/1-110              ..................................  110
109159198|Oligoplites_altus/1-110              ..................................  110
109159309|Trixiphichthys_weberi/1-110          ..................................  110
98374193|Ameerega_hahneli/1-109                ..................................  109
98374291|Colostethus_fraterdanie/1-109         ..................................  109
255934568|Pyrgomantis_nasuta/1-109             ..................................  109
262178798|Selenops_insularis/1-109             ..................................  109
224814522|Podacanthus_wilkinsoni/1-105         ..................................  105
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 3 2 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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290465491|Spinotectarchus_acornu/1-105  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIH...  105
224814484|Megacrania_aplheus/1-104  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAI....  104
224814530|Rhaphiderus_scabrosus/1-104  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAI....  104
290465465|Tropidoderus_sp./1-104  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAI....  104
224814472|Rhynchacris_ornata/1-103  ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAI....  103
68509471|Austrophlebioides_sp./1-104  ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDT.........  104
188037166|Dicranosepsis_cf./1-106  ......................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCA.....  106
224814422|Clitarchus_hookeri/1-101  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTN........  101
257783326|Scutigera_nossibei/1-101  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTN........  101
45545284|Statilia_apicalis/1-98  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXE...........   98
158346004|Pheidole_obtusospinosa/1-98  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXE...........   98
158345924|Pheidole_dentata/1-97  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLX............   97
158324249|Argiolestes_sidonia/1-95  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............   95
255934466|Ciulfina_biseriata/1-95  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............   95
306975220|Selenops_sp./1-94  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVG.............   94
68509553|Elassoneuria_sp./1-100  ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............  100
238817457|Ephemerella_maculata/1-99  ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............   99
62899590|Barytelphusa_cuniculari/1-98  ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............   98
62899604|Barytelphusa_sp./1-98  ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............   98
196175137|Lystra_lanata/1-98  ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............   98
consensus                                            *K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV****

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290465491|Spinotectarchus_acornu/1-105  ..................................  105
224814484|Megacrania_aplheus/1-104  ..................................  104
224814530|Rhaphiderus_scabrosus/1-104  ..................................  104
290465465|Tropidoderus_sp./1-104  ..................................  104
224814472|Rhynchacris_ornata/1-103  ..................................  103
68509471|Austrophlebioides_sp./1-104  ..................................  104
188037166|Dicranosepsis_cf./1-106  ..................................  106
224814422|Clitarchus_hookeri/1-101  ..................................  101
257783326|Scutigera_nossibei/1-101  ..................................  101
45545284|Statilia_apicalis/1-98  ..................................   98
158346004|Pheidole_obtusospinosa/1-98  ..................................   98
158345924|Pheidole_dentata/1-97  ..................................   97
158324249|Argiolestes_sidonia/1-95  ..................................   95
255934466|Ciulfina_biseriata/1-95  ..................................   95
306975220|Selenops_sp./1-94  ..................................   94
68509553|Elassoneuria_sp./1-100  ..................................  100
238817457|Ephemerella_maculata/1-99  ..................................   99
62899590|Barytelphusa_cuniculari/1-98  ..................................   98
62899604|Barytelphusa_sp./1-98  ..................................   98
196175137|Lystra_lanata/1-98  ..................................   98
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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164470741|Dardanus_lagopodes/1-96      ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYL................      96
164470743|Ciliopagurus_tricolor/1-96     ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYL................      96
164470747|Ciliopagurus_strigatus/1-96    ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYL................      96
164470751|Ciliopagurus_vakovako/1-96    ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYL................      96
164470755|Ciliopagurus_galzini/1-96     ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYL................      96
257783603|Pomacea_glauca/1-116          ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLXEDTNLCAIHAKR     112
164470759|Ciliopagurus_hawaiiens/1-96   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYL................      96
164470761|Strigopagurus_poupini/1-96    ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYL................      96
196175201|Desudaba_danae/1-95           ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAY...............      95
238817453|Ephemerella_atagosana/1-93    ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEA................      93
37675330|Aspidosiphon_fischeri/1-96     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............      96
98374201|Colostethus_sp./1-96           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............      96
158346038|Pheidole_rhea/1-96            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............      96
158346124|Pheidole_tristicula/1-96      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............      96
160279857|Eucyclotoma_cymatodes/1-96    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............      96
262178732|Selenops_insularis/1-96       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............      96
262179044|Selenops_lindborgi/1-96       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............      96
262179142|Selenops_mexicanus/1-96       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............      96
289536481|Microdipoena_nyungwe/1-96     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............      96
289536498|Mysmeninae_sp./1-96           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL............      96
consensus                                                  **RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYL***

logo

164470741|Dardanus_lagopodes/1-96      ..............................      96
164470743|Ciliopagurus_tricolor/1-96     ..............................      96
164470747|Ciliopagurus_strigatus/1-96    ..............................      96
164470751|Ciliopagurus_vakovako/1-96    ..............................      96
164470755|Ciliopagurus_galzini/1-96     ..............................      96
257783603|Pomacea_glauca/1-116          VTII..........................     116
164470759|Ciliopagurus_hawaiiens/1-96   ..............................      96
164470761|Strigopagurus_poupini/1-96    ..............................      96
196175201|Desudaba_danae/1-95           ..............................      95
238817453|Ephemerella_atagosana/1-93    ..............................      93
37675330|Aspidosiphon_fischeri/1-96     ..............................      96
98374201|Colostethus_sp./1-96           ..............................      96
158346038|Pheidole_rhea/1-96            ..............................      96
158346124|Pheidole_tristicula/1-96      ..............................      96
160279857|Eucyclotoma_cymatodes/1-96    ..............................      96
262178732|Selenops_insularis/1-96       ..............................      96
262179044|Selenops_lindborgi/1-96       ..............................      96
262179142|Selenops_mexicanus/1-96       ..............................      96
289536481|Microdipoena_nyungwe/1-96     ..............................      96
289536498|Mysmeninae_sp./1-96           ..............................      96
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300393425|Dermatobranchus_sp./1-96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300393503|Marionia_sp./1-96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
306975054|Selenops_curazao/1-96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
306975120|Selenops_sp./1-96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
306975288|Selenops_submaculosus/1-96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
45545256|Episcopomantis_chalybea/1-95                                                
45545262|Stenomantis_novaeguinea/1-95                                                
90184748|Phrynobatrachus_dispar/1-95                                                
71726107|Aegla_abtao/1-97                                                
58081673|Malagasya_antongilensis/1-102                                                
58081677|Marojejy_longimerus/1-102                                                
58081683|Socotra_pseudocardisoma/1-102                                                
196175189|Pyrops_sp./1-97                                                
208479692|Hypselecara_temporalis/1-97                                                
110627798|Cirratulus_cirratus/1-95                                                
110627844|Notomastus_latericeus/1-95                                                
163638232|Dysdera_sp./1-95                                                
219524081|Ombrastacoides_huonens/1-95                                                
262178746|Selenops_insularis/1-95                                                
289536548|Mysmena_sp./1-97                                                
consensus                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300393425|Dermatobranchus_sp./1-96                                                
300393503|Marionia_sp./1-96                                                
306975054|Selenops_curazao/1-96                                                
306975120|Selenops_sp./1-96                                                
306975288|Selenops_submaculosus/1-96                                                
45545256|Episcopomantis_chalybea/1-95                                                
45545262|Stenomantis_novaeguinea/1-95                                                
90184748|Phrynobatrachus_dispar/1-95                                                
71726107|Aegla_abtao/1-97                                                
58081673|Malagasya_antongilensis/1-102                                                
58081677|Marojejy_longimerus/1-102                                                
58081683|Socotra_pseudocardisoma/1-102                                                
196175189|Pyrops_sp./1-97                                                
208479692|Hypselecara_temporalis/1-97                                                
110627798|Cirratulus_cirratus/1-95                                                
110627844|Notomastus_latericeus/1-95                                                
163638232|Dysdera_sp./1-95                                                
219524081|Ombrastacoides_huonens/1-95                                                
262178746|Selenops_insularis/1-95                                                
289536548|Mysmena_sp./1-97                                                
consensus                                                
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                 4 3 2 1
                                                     RK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVG LLEDTNLCAIHAKR 4 3 2 1
                                                     GTA
70609140|Aphredoderus_sayanus/1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLLEDTNLCAIHAKR   110
98374295|Colostethus_fraterdanie/1-109              ....................RK...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLLEDTNLCAIHAKR   109
158324255|Cordulephya_pygmaea/1-108                 ....................K...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLLEDTNLCAIHAKR   108
220980689|Macrobrachium_nr./1-99                    ...................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL.............   99
220980697|Macrobrachium_lepidact/1-99               ...................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL.............   99
262179174|Selenops_micropalpus/1-95                 ....................RK...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVG.............   95
262179288|Selenops_sp./1-95                         ....................RK...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVG.............   95
289536552|Mysmena_sp./1-95                          ....................RK...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVG.............   95
306975128|Selenops_sp./1-95                         ....................RK...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVG.............   95
306975136|Selenops_pensilis/1-95                    ....................RK...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVG.............   95
306975222|Selenops_sp./1-95                         ....................RK...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVG.............   95
306975382|Selenops_candidus/1-95                    ....................RK...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVG.............   95
306975588|Selenopidae_gen./1-95                     ....................RK...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVG.............   95
90184956|Rana_nigrovittata/1-94                     ....................RK...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............   94
262178994|Selenops_lindborgi/1-94                   ....................RK...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............   94
262179144|Selenops_mexicanus/1-94                   ....................RK...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............   94
289536486|Maymena_sp./1-94                          ....................RK...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............   94
306975302|Selenops_submaculosus/1-94                ....................RK...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............   94
306975426|Selenops_sp./1-94                         ....................RK...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............   94
94014583|Copelatus_sp./1-93                         ....................K...STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............   93
consensus                                            RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV*
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logo                                                 4 3 2 1
                                                     4 3 2 1
70609140|Aphredoderus_sayanus/1-110                  ..................................   110
98374295|Colostethus_fraterdanie/1-109              ..................................   109
158324255|Cordulephya_pygmaea/1-108                 ..................................   108
220980689|Macrobrachium_nr./1-99                    ..................................    99
220980697|Macrobrachium_lepidact/1-99               ..................................    99
262179174|Selenops_micropalpus/1-95                 ..................................    95
262179288|Selenops_sp./1-95                         ..................................    95
289536552|Mysmena_sp./1-95                          ..................................    95
306975128|Selenops_sp./1-95                         ..................................    95
306975136|Selenops_pensilis/1-95                    ..................................    95
306975222|Selenops_sp./1-95                         ..................................    95
306975382|Selenops_candidus/1-95                    ..................................    95
306975588|Selenopidae_gen./1-95                     ..................................    95
90184956|Rana_nigrovittata/1-94                     ..................................    94
262178994|Selenops_lindborgi/1-94                   ..................................    94
262179144|Selenops_mexicanus/1-94                   ..................................    94
289536486|Maymena_sp./1-94                          ..................................    94
306975302|Selenops_submaculosus/1-94                ..................................    94
306975426|Selenops_sp./1-94                         ..................................    94
94014583|Copelatus_sp./1-93                         ..................................    93
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
219923271|Malayopotamon_aff./1-92          ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLV..............  92
170321719|Copelatus_sp./1-93                ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGL.............  93
196175173|Echetra_nebulosa/1-91             ...................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA......  91
110627814|Euphrosine_sp./1-97               ...................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  97
162424376|Australiorylon_sp./1-97           ...................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  97
259157639|Zelandoperla_fenestrat/1-97       ...................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  97
259157675|Zelandoperla_decorata/1-97        ...................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  97
294805003|Apteryoperla_lakiula/1-97         ...................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  97
294805007|Apteryoperla_monticola/1-97       ...................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  97
294805009|Apteryoperla_illiesi/1-97         ...................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  97
294805011|Apteryoperla_nancyae/1-97         ...................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  97
294805013|Holcoperla_angularis/1-97         ...................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  97
294805019|Holcoperla_sp./1-97               ...................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  97
294805021|Holcoperla_jacksoni/1-97          ...................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  97
306975404|Selenops_petrunkevitch/1-97       ...................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  97
165973023|Perochaeta_dikowi/1-95            ...................................LATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  95
6049797|Notomastus_torquatus/1-92           ....................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......  92
257783605|Pomacea_glauca/1-117              ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 112
68509469|Choroterpes_sp./1-125              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
68509473|Leptophlebiidae_sp./1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
consensus                                                                          LATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA**

logo

219923271|Malayopotamon_aff./1-92          ..................................  92
170321719|Copelatus_sp./1-93                ..................................  93
196175173|Echetra_nebulosa/1-91             ..................................  91
110627814|Euphrosine_sp./1-97               ..................................  97
162424376|Australiorylon_sp./1-97           ..................................  97
259157639|Zelandoperla_fenestrat/1-97       ..................................  97
259157675|Zelandoperla_decorata/1-97        ..................................  97
294805003|Apteryoperla_lakiula/1-97         ..................................  97
294805007|Apteryoperla_monticola/1-97       ..................................  97
294805009|Apteryoperla_illiesi/1-97         ..................................  97
294805011|Apteryoperla_nancyae/1-97         ..................................  97
294805013|Holcoperla_angularis/1-97         ..................................  97
294805019|Holcoperla_sp./1-97               ..................................  97
294805021|Holcoperla_jacksoni/1-97          ..................................  97
306975404|Selenops_petrunkevitch/1-97       ..................................  97
165973023|Perochaeta_dikowi/1-95            ..................................  95
6049797|Notomastus_torquatus/1-92           ..................................  92
257783605|Pomacea_glauca/1-117              VTIMP.............................. 117
68509469|Choroterpes_sp./1-125              VTIMPKDI........................... 125
68509473|Leptophlebiidae_sp./1-125          VTIMPKDI........................... 125
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                      2
                                                      1
156336942|Nematostella_vectensis/1-148   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
7305139|Mus_musculus/1-136                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
24585677|Drosophila_melanogaster/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
31742503|Homo_sapiens/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
62860150|Xenopus_(Silurana)/1-136         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
68448473|Danio_rerio/1-136                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
114051013|Bombyx_mori/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
148236633|Xenopus_laevis/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
157818935|Rattus_norvegicus/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
262118289|Bos_taurus/1-136                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
73981514|Canis_lupus/1-136                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
91094961|Tribolium_castaneum/1-136         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
109020395|Macaca_mulatta/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
110749568|Apis_mellifera/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
114559139|Pan_troglodytes/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
118082482|Gallus_gallus/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
126309036|Monodelphis_domestica/1-136     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
149422492|Ornithorhynchus_anatin/1-136    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
149760358|Equus_caballus/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
156320594|Nematostella_vectensis/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
consensus                                             MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                                  4 VTIMPKDIQLARRIRGERA                                                      4
                                                      3                                                                          3
                                                      2                                                                          2
                                                      1                                                                          1
156336942|Nematostella_vectensis/1-148   VTIMPKDIQLARRIRGERAHWKANICLKSYY..   148
7305139|Mus_musculus/1-136               VTIMPKDIQLARRIRGERA..............   136
24585677|Drosophila_melanogaster/1-136   VTIMPKDIQLARRIRGERA..............   136
31742503|Homo_sapiens/1-136              VTIMPKDIQLARRIRGERA..............   136
62860150|Xenopus_(Silurana)/1-136        VTIMPKDIQLARRIRGERA..............   136
68448473|Danio_rerio/1-136               VTIMPKDIQLARRIRGERA..............   136
114051013|Bombyx_mori/1-136              VTIMPKDIQLARRIRGERA..............   136
148236633|Xenopus_laevis/1-136           VTIMPKDIQLARRIRGERA..............   136
157818935|Rattus_norvegicus/1-136        VTIMPKDIQLARRIRGERA..............   136
262118289|Bos_taurus/1-136               VTIMPKDIQLARRIRGERA..............   136
73981514|Canis_lupus/1-136               VTIMPKDIQLARRIRGERA..............   136
91094961|Tribolium_castaneum/1-136       VTIMPKDIQLARRIRGERA..............   136
109020395|Macaca_mulatta/1-136           VTIMPKDIQLARRIRGERA..............   136
110749568|Apis_mellifera/1-136           VTIMPKDIQLARRIRGERA..............   136
114559139|Pan_troglodytes/1-136          VTIMPKDIQLARRIRGERA..............   136
118082482|Gallus_gallus/1-136            VTIMPKDIQLARRIRGERA..............   136
126309036|Monodelphis_domestica/1-136    VTIMPKDIQLARRIRGERA..............   136
149422492|Ornithorhynchus_anatin/1-136   VTIMPKDIQLARRIRGERA..............   136
149760358|Equus_caballus/1-136           VTIMPKDIQLARRIRGERA..............   136
156320594|Nematostella_vectensis/1-136   VTIMPKDIQLARRIRGERA..............   136
consensus                                VTIMPKDIQLARRIRGERA
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 MARTKQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
156536991|Nasonia_vitripennis/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
157131411|Aedes_aegypti/1-136                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
158284313|Anopheles_gambiae/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
170039271|Culex_quinquefasciatus/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
193582486|Acyrthosiphon_pisum/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
194765383|Drosophila_ananassae/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
194878012|Drosophila_erecta/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
195063409|Drosophila_grimshawi/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
195108385|Drosophila_mojavensis/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
195144270|Drosophila_persimilis/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
195356592|Drosophila_sechellia/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
195387155|Drosophila_virilis/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
195418214|Drosophila_willistoni/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
195557590|Drosophila_simulans/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
196005397|Trichoplax_adhaerens/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
198424615|Ciona_intestinalis/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
224094546|Taeniopygia_guttata/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
242020948|Pediculus_humanus/1-136                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
260782565|Branchiostoma_floridae/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
291222464|Saccoglossus_kowalevsk/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
consensus                                         MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4 VTIMPKDIQLARRIRGERA 4
                                                      3                     3
                                                      2                     2
                                                      1                     1
156536991|Nasonia_vitripennis/1-136          VTIMPKDIQLARRIRGERA..............  136
157131411|Aedes_aegypti/1-136                VTIMPKDIQLARRIRGERA..............  136
158284313|Anopheles_gambiae/1-136            VTIMPKDIQLARRIRGERA..............  136
170039271|Culex_quinquefasciatus/1-136       VTIMPKDIQLARRIRGERA..............  136
193582486|Acyrthosiphon_pisum/1-136          VTIMPKDIQLARRIRGERA..............  136
194765383|Drosophila_ananassae/1-136         VTIMPKDIQLARRIRGERA..............  136
194878012|Drosophila_erecta/1-136            VTIMPKDIQLARRIRGERA..............  136
195063409|Drosophila_grimshawi/1-136         VTIMPKDIQLARRIRGERA..............  136
195108385|Drosophila_mojavensis/1-136        VTIMPKDIQLARRIRGERA..............  136
195144270|Drosophila_persimilis/1-136        VTIMPKDIQLARRIRGERA..............  136
195356592|Drosophila_sechellia/1-136         VTIMPKDIQLARRIRGERA..............  136
195387155|Drosophila_virilis/1-136           VTIMPKDIQLARRIRGERA..............  136
195418214|Drosophila_willistoni/1-136        VTIMPKDIQLARRIRGERA..............  136
195557590|Drosophila_simulans/1-136          VTIMPKDIQLARRIRGERA..............  136
196005397|Trichoplax_adhaerens/1-136         VTIMPKDIQLARRIRGERA..............  136
198424615|Ciona_intestinalis/1-136           VTIMPKDIQLARRIRGERA..............  136
224094546|Taeniopygia_guttata/1-136          VTIMPKDIQLARRIRGERA..............  136
242020948|Pediculus_humanus/1-136            VTIMPKDIQLARRIRGERA..............  136
260782565|Branchiostoma_floridae/1-136       VTIMPKDIQLARRIRGERA..............  136
291222464|Saccoglossus_kowalevsk/1-136       VTIMPKDIQLARRIRGERA..............  136
consensus                                    VTIMPKDIQLARRIRGERA
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                   4 ┐                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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logo                                   3 │                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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logo                                   2 │                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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291398081|Oryctolagus_cuniculus/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
296228643|Callithrix_jacchus/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
297663789|Pongo_abelii/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
311254411|Sus_scrofa/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
55977046|Cairina_moschata/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
55977049|Oncorhynchus_mykiss/1-136       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
55977050|Platynereis_dumerilii/1-136     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
55977051|Drosophila_hydei/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
55977052|Tigriopus_californicus/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
55977053|Chironomus_thummi/1-136         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
55977054|Urechis_caupo/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
81911078|Mus_pahari/1-136                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
116256315|Ictiobus_bubalus/1-136         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
116256316|Poroderma_africanum/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
14269420|Rhynchosciara_americana/1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
2564107|Chaetopterus_variopedatu/1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
7415976|Drosophila_mauritiana/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
7415978|Drosophila_teissieri/1-136       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
7415980|Drosophila_yakuba/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
7415984|Drosophila_orena/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
consensus                                MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                   3 │
logo                                   2 │
logo                                   1 ┘

291398081|Oryctolagus_cuniculus/1-136   VTIMPKDIQLARRIRGERA..............   136
296228643|Callithrix_jacchus/1-136      VTIMPKDIQLARRIRGERA..............   136
297663789|Pongo_abelii/1-136             VTIMPKDIQLARRIRGERA..............   136
311254411|Sus_scrofa/1-136               VTIMPKDIQLARRIRGERA..............   136
55977046|Cairina_moschata/1-136          VTIMPKDIQLARRIRGERA..............   136
55977049|Oncorhynchus_mykiss/1-136       VTIMPKDIQLARRIRGERA..............   136
55977050|Platynereis_dumerilii/1-136     VTIMPKDIQLARRIRGERA..............   136
55977051|Drosophila_hydei/1-136          VTIMPKDIQLARRIRGERA..............   136
55977052|Tigriopus_californicus/1-136   VTIMPKDIQLARRIRGERA..............   136
55977053|Chironomus_thummi/1-136         VTIMPKDIQLARRIRGERA..............   136
55977054|Urechis_caupo/1-136             VTIMPKDIQLARRIRGERA..............   136
81911078|Mus_pahari/1-136                VTIMPKDIQLARRIRGERA..............   136
116256315|Ictiobus_bubalus/1-136         VTIMPKDIQLARRIRGERA..............   136
116256316|Poroderma_africanum/1-136      VTIMPKDIQLARRIRGERA..............   136
14269420|Rhynchosciara_americana/1-136  VTIMPKDIQLARRIRGERA..............   136
2564107|Chaetopterus_variopedatu/1-136  VTIMPKDIQLARRIRGERA..............   136
7415976|Drosophila_mauritiana/1-136      VTIMPKDIQLARRIRGERA..............   136
7415978|Drosophila_teissieri/1-136       VTIMPKDIQLARRIRGERA..............   136
7415980|Drosophila_yakuba/1-136          VTIMPKDIQLARRIRGERA..............   136
7415984|Drosophila_orena/1-136           VTIMPKDIQLARRIRGERA..............   136
consensus                                VTIMPKDIQLARRIRGERA
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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                                                                                                                                                                                                                                                                                                                                              
21307835|Aplysia_californica/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
23304758|Mytilus_edulis/1-136                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
33114057|Mytilus_galloprovincial/1-136       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
33114096|Mytilus_trossulus/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
38564131|Drosophila_takahashii/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
38564133|Drosophila_ficusphila/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
38564135|Drosophila_immigrans/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
38564137|Drosophila_lutescens/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
38564139|Drosophila_americana/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
47212273|Tetraodon_nigroviridis/1-136         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
89520694|Chlamys_farreri/1-136                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
157169143|Venerupis_philippinaru/1-136        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
157169153|Venerupis_decussatus/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
157169163|Venerupis_pullastra/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
158958244|Anthonomus_grandis/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
225711398|Caligus_rogercresseyi/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
225718794|Caligus_clemensi/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
281353735|Ailuropoda_melanoleuca/1-136        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
283468928|Xenoturbella_bocki/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
289722614|Glossina_morsitans/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                                     MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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21307835|Aplysia_californica/1-136          VTIMPKDIQLARRIRGERA.............     136
23304758|Mytilus_edulis/1-136                VTIMPKDIQLARRIRGERA.............     136
33114057|Mytilus_galloprovincial/1-136       VTIMPKDIQLARRIRGERA.............     136
33114096|Mytilus_trossulus/1-136             VTIMPKDIQLARRIRGERA.............     136
38564131|Drosophila_takahashii/1-136          VTIMPKDIQLARRIRGERA.............     136
38564133|Drosophila_ficusphila/1-136          VTIMPKDIQLARRIRGERA.............     136
38564135|Drosophila_immigrans/1-136           VTIMPKDIQLARRIRGERA.............     136
38564137|Drosophila_lutescens/1-136           VTIMPKDIQLARRIRGERA.............     136
38564139|Drosophila_americana/1-136           VTIMPKDIQLARRIRGERA.............     136
47212273|Tetraodon_nigroviridis/1-136         VTIMPKDIQLARRIRGERA.............     136
89520694|Chlamys_farreri/1-136                VTIMPKDIQLARRIRGERA.............     136
157169143|Venerupis_philippinaru/1-136        VTIMPKDIQLARRIRGERA.............     136
157169153|Venerupis_decussatus/1-136          VTIMPKDIQLARRIRGERA.............     136
157169163|Venerupis_pullastra/1-136           VTIMPKDIQLARRIRGERA.............     136
158958244|Anthonomus_grandis/1-136            VTIMPKDIQLARRIRGERA.............     136
225711398|Caligus_rogercresseyi/1-136          VTIMPKDIQLARRIRGERA.............     136
225718794|Caligus_clemensi/1-136               VTIMPKDIQLARRIRGERA.............     136
281353735|Ailuropoda_melanoleuca/1-136        VTIMPKDIQLARRIRGERA.............     136
283468928|Xenoturbella_bocki/1-136            VTIMPKDIQLARRIRGERA.............     136
289722614|Glossina_morsitans/1-136            VTIMPKDIQLARRIRGERA.............     136
consensus                                     VTIMPKDIQLARRIRGERA
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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307168957|Camponotus_floridanus/1-136     ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
307194491|Harpegnathos_saltator/1-136     ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
157137729|Aedes_aegypti/1-135             ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509475|Baetis_tricaudatus/1-125          ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509477|Mystaxiops_venatoris/1-125        ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509479|Centroptilum_luteolum/1-125      ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509481|Ecdyonurus_dispar/1-125           ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509483|Euthyplocia_hecuba/1-125          ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509485|Penaphlebia_sp./1-125             ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509489|Metamonius_sp./1-125              ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509505|Siphlaenigma_janae/1-125           ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509507|Nesameletus_ornatus/1-125          ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509509|Rallidens_mcfarlanei/1-125         ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509517|Edmundsius_agilis/1-125            ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509519|Cinygma_sp./1-125                 ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509531|Atopopus_sp./1-125                ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509533|Platybaetis_probus/1-125           ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509535|Jubabaetis_sp./1-125              ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509543|Hyrtanella_sp./1-125              ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509545|Ichthybotus_hudsoni/1-125         ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                                  MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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307168957|Camponotus_floridanus/1-136     VTIMPKDIQLARRIRGERA.......................     136
307194491|Harpegnathos_saltator/1-136     VTIMPKDIQLARRIRGERA.......................     136
157137729|Aedes_aegypti/1-135             VTIMPKDIQLARRIRGER........................     135
68509475|Baetis_tricaudatus/1-125          VTIMPKDI..................................     125
68509477|Mystaxiops_venatoris/1-125        VTIMPKDI..................................     125
68509479|Centroptilum_luteolum/1-125       VTIMPKDI..................................     125
68509481|Ecdyonurus_dispar/1-125           VTIMPKDI..................................     125
68509483|Euthyplocia_hecuba/1-125          VTIMPKDI..................................     125
68509485|Penaphlebia_sp./1-125             VTIMPKDI..................................     125
68509489|Metamonius_sp./1-125              VTIMPKDI..................................     125
68509505|Siphlaenigma_janae/1-125           VTIMPKDI..................................     125
68509507|Nesameletus_ornatus/1-125          VTIMPKDI..................................     125
68509509|Rallidens_mcfarlanei/1-125         VTIMPKDI..................................     125
68509517|Edmundsius_agilis/1-125            VTIMPKDI..................................     125
68509519|Cinygma_sp./1-125                 VTIMPKDI..................................     125
68509531|Atopopus_sp./1-125                VTIMPKDI..................................     125
68509533|Platybaetis_probus/1-125           VTIMPKDI..................................     125
68509535|Jubabaetis_sp./1-125              VTIMPKDI..................................     125
68509543|Hyrtanella_sp./1-125              VTIMPKDI..................................     125
68509545|Ichthybotus_hudsoni/1-125         VTIMPKDI..................................     125
consensus                                  VTIMPKDI
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X non conserved
X similar
X ≥50% conserved
X ≥80% conserved

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logo                                   4 ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
68509547|Dipteromimus_sp./1-125        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
82618987|Acilius_abbreviatus/1-125     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
82618989|Acilius_athabascae/1-125     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
82618991|Acilius_canaliculatus/1-125 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
82618993|Acilius_confusus/1-125       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
82618995|Acilius_duvergeri/1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
82618999|Graphoderus_fascicollis/1-125 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
82619001|Graphoderus_zonatus/1-125    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
82619003|Acilius_japonicus/1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
82619005|Acilius_kishii/1-125         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
82619007|Acilius_mediatus/1-125       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
82619009|Acilius_semisulcatus/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
82619011|Acilius_sulcatus/1-125       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247777|Ephestiasula_sp./1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247779|Eremiaphila_rotundipen/1-125 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247781|Schizocephala_bicornis/1-125 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247783|Deiphobella_laticeps/1-125  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247785|Toxoderopsis_taurus/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247791|Elmantis_trincomaliae/1-125 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247793|Creobroter_apicalis/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                              MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                   4 ]                                 [ 4
                                       3 ]                                 [ 3
                                       2 ]                                 [ 2
                                       1 ]                                 [ 1
68509547|Dipteromimus_sp./1-125        VTIMPKDI........................     125
82618987|Acilius_abbreviatus/1-125     VTIMPKDI........................     125
82618989|Acilius_athabascae/1-125      VTIMPKDI........................     125
82618991|Acilius_canaliculatus/1-125   VTIMPKDI........................     125
82618993|Acilius_confusus/1-125        VTIMPKDI........................     125
82618995|Acilius_duvergeri/1-125       VTIMPKDI........................     125
82618999|Graphoderus_fascicollis/1-125 VTIMPKDI........................     125
82619001|Graphoderus_zonatus/1-125     VTIMPKDI........................     125
82619003|Acilius_japonicus/1-125       VTIMPKDI........................     125
82619005|Acilius_kishii/1-125          VTIMPKDI........................     125
82619007|Acilius_mediatus/1-125        VTIMPKDI........................     125
82619009|Acilius_semisulcatus/1-125    VTIMPKDI........................     125
82619011|Acilius_sulcatus/1-125        VTIMPKDI........................     125
150247777|Ephestiasula_sp./1-125       VTIMPKDI........................     125
150247779|Eremiaphila_rotundipen/1-125 VTIMPKDI........................     125
150247781|Schizocephala_bicornis/1-125 VTIMPKDI........................     125
150247783|Deiphobella_laticeps/1-125   VTIMPKDI........................     125
150247785|Toxoderopsis_taurus/1-125    VTIMPKDI........................     125
150247791|Elmantis_trincomaliae/1-125  VTIMPKDI........................     125
150247793|Creobroter_apicalis/1-125    VTIMPKDI........................     125
consensus                              VTIMPKDI
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
150247799|Phyllothelys_westwoodi/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247801|Euantissa_pulchra/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247805|Acromantis_montana/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247807|Amantis_biroi/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247809|Austrovates_variegata/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247813|Didymocorypha_lanceola/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247815|Dysaules_himalayanus/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247817|Stenotoxodera_porioni/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247821|Gonypeta_borneana/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247825|Xanthomantis_sp./1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247827|Phyllothelys_sp./1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247829|Citharomantis_falcata/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247833|Sceptuchus_simplex/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247835|Rhomantis_sp./1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247837|Leptomantella_sp./1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247843|Pseudomiopteryx_sp./1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247849|Thesprotiella_sp./1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247851|Eumusonia_livida/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247853|Brunneria_sp./1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247857|Empusa_guttula/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
consensus                                                  MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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150247799|Phyllothelys_westwoodi/1-125   VTIMPKDI.......................   125
150247801|Euantissa_pulchra/1-125   VTIMPKDI.......................   125
150247805|Acromantis_montana/1-125   VTIMPKDI.......................   125
150247807|Amantis_biroi/1-125   VTIMPKDI.......................   125
150247809|Austrovates_variegata/1-125   VTIMPKDI.......................   125
150247813|Didymocorypha_lanceola/1-125   VTIMPKDI.......................   125
150247815|Dysaules_himalayanus/1-125   VTIMPKDI.......................   125
150247817|Stenotoxodera_porioni/1-125   VTIMPKDI.......................   125
150247821|Gonypeta_borneana/1-125   VTIMPKDI.......................   125
150247825|Xanthomantis_sp./1-125   VTIMPKDI.......................   125
150247827|Phyllothelys_sp./1-125   VTIMPKDI.......................   125
150247829|Citharomantis_falcata/1-125   VTIMPKDI.......................   125
150247833|Sceptuchus_simplex/1-125   VTIMPKDI.......................   125
150247835|Rhomantis_sp./1-125   VTIMPKDI.......................   125
150247837|Leptomantella_sp./1-125   VTIMPKDI.......................   125
150247843|Pseudomiopteryx_sp./1-125   VTIMPKDI.......................   125
150247849|Thesprotiella_sp./1-125   VTIMPKDI.......................   125
150247851|Eumusonia_livida/1-125   VTIMPKDI.......................   125
150247853|Brunneria_sp./1-125   VTIMPKDI.......................   125
150247857|Empusa_guttula/1-125   VTIMPKDI.......................   125
consensus                          VTIMPKDI
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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150247859|Popa_spurca/1-125                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247865|Macromantis_nicaraguae/1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247867|Liturgusa_maya/1-125                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247869|Metilia_brunnerii/1-125               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247871|Antemna_rapax/1-125                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247875|Parastagmatoptera_sp./1-125            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247877|Oromantis_sp./1-125                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247881|Otomantis_sp./1-125                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247883|Taumantis_sigiana/1-125               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
195094484|Drosophila_grimshawi/1-142            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247885|Theopropus_elegans/1-125               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247887|Polyspilota_aeruginosa/1-125           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247895|Raptrix_perspicua/1-125                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247897|Cardioptera_squalodon/1-125            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247909|Iris_oratoria/1-125                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247911|Parasphendale_sp./1-125               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247913|Dystactula_grisea/1-125               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247923|Heterochaetula_fissisp/1-125           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247925|Eomantis_iridipennis/1-125             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247943|Hyalomantis_sp./1-125                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                                       MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                            VTIMPKDI

150247859|Popa_spurca/1-125                     VTIMPKDI........................     125
150247865|Macromantis_nicaraguae/1-125          VTIMPKDI........................     125
150247867|Liturgusa_maya/1-125                  VTIMPKDI........................     125
150247869|Metilia_brunnerii/1-125               VTIMPKDI........................     125
150247871|Antemna_rapax/1-125                   VTIMPKDI........................     125
150247875|Parastagmatoptera_sp./1-125           VTIMPKDI........................     125
150247877|Oromantis_sp./1-125                   VTIMPKDI........................     125
150247881|Otomantis_sp./1-125                   VTIMPKDI........................     125
150247883|Taumantis_sigiana/1-125               VTIMPKDI........................     125
195094484|Drosophila_grimshawi/1-142            VTIMPKDIQLARRIRFGGPEKDRLV.......     142
150247885|Theopropus_elegans/1-125              VTIMPKDI........................     125
150247887|Polyspilota_aeruginosa/1-125          VTIMPKDI........................     125
150247895|Raptrix_perspicua/1-125               VTIMPKDI........................     125
150247897|Cardioptera_squalodon/1-125           VTIMPKDI........................     125
150247909|Iris_oratoria/1-125                   VTIMPKDI........................     125
150247911|Parasphendale_sp./1-125               VTIMPKDI........................     125
150247913|Dystactula_grisea/1-125               VTIMPKDI........................     125
150247923|Heterochaetula_fissisp/1-125          VTIMPKDI........................     125
150247925|Eomantis_iridipennis/1-125            VTIMPKDI........................     125
150247943|Hyalomantis_sp./1-125                 VTIMPKDI........................     125
consensus                                       VTIMPKDI
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                      4 ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 ]
                                          3 ]
                                          2 ]
                                          1 ]
150247945|Pyrgomantis_jonesi/1-125        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247947|Chrysomantis_cachani/1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247953|Miomantis_aurea/1-125            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247955|Congoharpax_aberrans/1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247957|Theopompella_chopardi/1-125     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247967|Tarachina_occidentalis/1-125    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247969|Tarachodes_afzelii/1-125        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247973|Anasigerpes_bifasciata/1-125    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247977|Paragalepsus_toganus/1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247983|Calofulcinia_sp./1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247985|Eumionyx_sp./1-125              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247989|Galepsus_sp./1-125              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
157011481|Isogenoides_varians/1-125       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
157011485|Isogenoides_elongatus/1-125     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
157011487|Isogenoides_colubrinus/1-125    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
157011489|Isogenoides_doratus/1-125       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376145|Paracapnia_opis/1-125           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376147|Allocapnia_minima/1-125         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376149|Bolshecapnia_sp./1-125           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376151|Isocapnia_hyalita/1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                                 MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                      4 ]                                  [ 4
                                          3 ]                                  [ 3
                                          2 ]                                  [ 2
                                          1 ]                                  [ 1
150247945|Pyrgomantis_jonesi/1-125        VTIMPKDI........................     125
150247947|Chrysomantis_cachani/1-125      VTIMPKDI........................     125
150247953|Miomantis_aurea/1-125           VTIMPKDI........................     125
150247955|Congoharpax_aberrans/1-125      VTIMPKDI........................     125
150247957|Theopompella_chopardi/1-125     VTIMPKDI........................     125
150247967|Tarachina_occidentalis/1-125    VTIMPKDI........................     125
150247969|Tarachodes_afzelii/1-125        VTIMPKDI........................     125
150247973|Anasigerpes_bifasciata/1-125    VTIMPKDI........................     125
150247977|Paragalepsus_toganus/1-125      VTIMPKDI........................     125
150247983|Calofulcinia_sp./1-125          VTIMPKDI........................     125
150247985|Eumionyx_sp./1-125              VTIMPKDI........................     125
150247989|Galepsus_sp./1-125              VTIMPKDI........................     125
157011481|Isogenoides_varians/1-125       VTIMPKDI........................     125
157011485|Isogenoides_elongatus/1-125     VTIMPKDI........................     125
157011487|Isogenoides_colubrinus/1-125    VTIMPKDI........................     125
157011489|Isogenoides_doratus/1-125       VTIMPKDI........................     125
161376145|Paracapnia_opis/1-125           VTIMPKDI........................     125
161376147|Allocapnia_minima/1-125         VTIMPKDI........................     125
161376149|Bolshecapnia_sp./1-125          VTIMPKDI........................     125
161376151|Isocapnia_hyalita/1-125         VTIMPKDI........................     125
consensus                                 VTIMPKDI
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 MARTKQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                  3
                                                      2                                                                                                                                                  2
                                                      1                                                                                                                                                  1
161376157|Paraperla_frontalis/1-125                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376159|Chloroperla_tripunctat/1-125               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376162|Neaviperla_forcipata/1-125                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
157423409|Danio_rerio/1-136                          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376164|Utaperla_sopladora/1-125                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376166|Alloperla_severa/1-125                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376172|Cosmioperla_australis/1-125                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376176|Zelandoperla_agnetis/1-125                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376184|Newmanoperla_exigua/1-125                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376190|Dinotoperla_serricauda/1-125               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376196|Rhithroperla_sp./1-125                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376198|Riekoperla_triloba/1-125                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376200|Paraleuctra_vershina/1-125                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376206|Leuctra_inermis/1-125                      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376208|Despaxia_augusta/1-125                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376210|Paraleuctra_occidental/1-125               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376212|Perlomyia_utahensis/1-125                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376214|Zealeuctra_arnoldi/1-125                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376216|Calileuctra_ephemera/1-125                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376218|Zapada_cinctipes/1-125                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                                             MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                                  4 VTIMPKDI                                                                  4
                                                      3                                                                           3
                                                      2                                                                           2
                                                      1                                                                           1
161376157|Paraperla_frontalis/1-125                   VTIMPKDI........................      125
161376159|Chloroperla_tripunctat/1-125               VTIMPKDI........................      125
161376162|Neaviperla_forcipata/1-125                 VTIMPKDI........................      125
157423409|Danio_rerio/1-136                          VTIMPKDIQLARRIRGVRA.............      136
161376164|Utaperla_sopladora/1-125                   VTIMPKDI........................      125
161376166|Alloperla_severa/1-125                     VTIMPKDI........................      125
161376172|Cosmioperla_australis/1-125                VTIMPKDI........................      125
161376176|Zelandoperla_agnetis/1-125                 VTIMPKDI........................      125
161376184|Newmanoperla_exigua/1-125                  VTIMPKDI........................      125
161376190|Dinotoperla_serricauda/1-125               VTIMPKDI........................      125
161376196|Rhithroperla_sp./1-125                     VTIMPKDI........................      125
161376198|Riekoperla_triloba/1-125                   VTIMPKDI........................      125
161376200|Paraleuctra_vershina/1-125                 VTIMPKDI........................      125
161376206|Leuctra_inermis/1-125                      VTIMPKDI........................      125
161376208|Despaxia_augusta/1-125                     VTIMPKDI........................      125
161376210|Paraleuctra_occidental/1-125               VTIMPKDI........................      125
161376212|Perlomyia_utahensis/1-125                  VTIMPKDI........................      125
161376214|Zealeuctra_arnoldi/1-125                   VTIMPKDI........................      125
161376216|Calileuctra_ephemera/1-125                  VTIMPKDI........................      125
161376218|Zapada_cinctipes/1-125                     VTIMPKDI........................      125
consensus                                             VTIMPKDI

X   non conserved
X   similar
X   ≥ 50% conserved
X   ≥ 80% conserved
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logo                                        4 MARTKQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                            3                                                                                                                 3
                                            2                                                                                                                 2
                                            1                                                                                                                 1
161376222|Visoka_cataractae/1-125           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376224|Nemurella_pictetii/1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376226|Protonemura_meyeri/1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376230|Amphinemura_sulcicolli/1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376232|Soyedina_producta/1-125           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376240|Cristaperla_waharoa/1-125         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376242|Austrocercella_sp./1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376254|Neonemura_sp./1-125               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376256|Austrocerca_rieka/1-125            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376268|Setvena_wahkeena/1-125            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376270|Kogotus_nonus/1-125               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376276|Isoperla_oxylepis/1-125            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376278|Salmoperla_sylvanica/1-125         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376284|Cascadoperla_trictura/1-125        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376288|Helopicus_bogaloosa/1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376290|Susulus_venastus/1-125             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376292|Baumanella_alameda/1-125           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
156539585|Nasonia_vitripennis/1-135          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376294|Hesperoperla_pacifica/1-125        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376300|Perlesta_decipines/1-125           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                                   MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                        4 VTIMPKDI                                  4
                                            3                                           3
                                            2                                           2
                                            1                                           1
161376222|Visoka_cataractae/1-125           VTIMPKDI........................      125
161376224|Nemurella_pictetii/1-125          VTIMPKDI........................      125
161376226|Protonemura_meyeri/1-125          VTIMPKDI........................      125
161376230|Amphinemura_sulcicolli/1-125      VTIMPKDI........................      125
161376232|Soyedina_producta/1-125           VTIMPKDI........................      125
161376240|Cristaperla_waharoa/1-125         VTIMPKDI........................      125
161376242|Austrocercella_sp./1-125          VTIMPKDI........................      125
161376254|Neonemura_sp./1-125               VTIMPKDI........................      125
161376256|Austrocerca_rieka/1-125           VTIMPKDI........................      125
161376268|Setvena_wahkeena/1-125            VTIMPKDI........................      125
161376270|Kogotus_nonus/1-125               VTIMPKDI........................      125
161376276|Isoperla_oxylepis/1-125           VTIMPKDI........................      125
161376278|Salmoperla_sylvanica/1-125        VTIMPKDI........................      125
161376284|Cascadoperla_trictura/1-125       VTIMPKDI........................      125
161376288|Helopicus_bogaloosa/1-125         VTIMPKDI........................      125
161376290|Susulus_venastus/1-125            VTIMPKDI........................      125
161376292|Baumanella_alameda/1-125          VTIMPKDI........................      125
156539585|Nasonia_vitripennis/1-135         VTIMPKDIQLARRLSLPN..............      135
161376294|Hesperoperla_pacifica/1-125       VTIMPKDI........................      125
161376300|Perlesta_decipines/1-125          VTIMPKDI........................      125
consensus                                   VTIMPKDI
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
161376302|Doroneuria_baumanni/1-125    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376306|Inconeuria_sp./1-125        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376308|Kempnyella_sp./1-125        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376310|Pictetoperla_sp./1-125     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376312|Beloneuria_stewarti/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376314|Claassenia_sabulosa/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376318|Eccoptura_xanthenes/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376320|Paragnetina_media/1-125    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376322|Neoperla_clymene/1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376328|Yoraperla_nigrisoma/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376330|Peltoperla_arcuata/1-125    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376336|Pteronarcys_scotti/1-125    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376338|Pteronarcys_sachalina/1-125 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376342|Brachyptera_seticornis/1-125 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376344|Bolotoperla_rossi/1-125    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376346|Taeniopteryx_nivalis/1-125 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376348|Doddsia_occidentalis/1-125 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
161376350|Strophopteryx_appalach/1-125 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
167614054|Bellamya_rubicunda/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
167614058|Afropomus_balanoidea/1-125  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
consensus                                                       MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

161376302|Doroneuria_baumanni/1-125    VTIMPKDI.......................    125
161376306|Inconeuria_sp./1-125        VTIMPKDI.......................    125
161376308|Kempnyella_sp./1-125        VTIMPKDI.......................    125
161376310|Pictetoperla_sp./1-125      VTIMPKDI.......................    125
161376312|Beloneuria_stewarti/1-125   VTIMPKDI.......................    125
161376314|Claassenia_sabulosa/1-125   VTIMPKDI.......................    125
161376318|Eccoptura_xanthenes/1-125   VTIMPKDI.......................    125
161376320|Paragnetina_media/1-125     VTIMPKDI.......................    125
161376322|Neoperla_clymene/1-125      VTIMPKDI.......................    125
161376328|Yoraperla_nigrisoma/1-125   VTIMPKDI.......................    125
161376330|Peltoperla_arcuata/1-125    VTIMPKDI.......................    125
161376336|Pteronarcys_scotti/1-125    VTIMPKDI.......................    125
161376338|Pteronarcys_sachalina/1-125 VTIMPKDI.......................    125
161376342|Brachyptera_seticornis/1-125 VTIMPKDI.......................    125
161376344|Bolotoperla_rossi/1-125     VTIMPKDI.......................    125
161376346|Taeniopteryx_nivalis/1-125  VTIMPKDI.......................    125
161376348|Doddsia_occidentalis/1-125  VTIMPKDI.......................    125
161376350|Strophopteryx_appalach/1-125 VTIMPKDI.......................    125
167614054|Bellamya_rubicunda/1-125    VTIMPKDI.......................    125
167614058|Afropomus_balanoidea/1-125  VTIMPKDI.......................    125
consensus                             VTIMPKDI
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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167614062|Lanistes_ellipticus/1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
167614064|Lanistes_nyassanus/1-125       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
167614068|Lanistes_ovum/1-125            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
167614070|Lanistes_varicus/1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
167614072|Marisa_cornuarietis/1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
167614074|Pila_conica/1-125              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
167614076|Pila_polita/1-125              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
167614078|Pomacea_bridgesi/1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
167614082|Saulea_vitrea/1-125             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205118|Viviparus_contectus/1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205120|Bellamya_pagodiformis/1-125    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
157138412|Aedes_aegypti/1-134             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205122|Neothauma_tanganyicens/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205124|Bellamya_sp./1-125             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205126|Bellamya_trochlearis/1-125     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205132|Bellamya_capillata/1-125        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205136|Bellamya_crawshayi/1-125        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205138|Bellamya_robertsoni/1-125       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205142|Bellamya_mweruensis/1-125       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205146|Bellamya_sp./1-125             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                                                          MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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167614062|Lanistes_ellipticus/1-125      VTIMPKDI........................     125
167614064|Lanistes_nyassanus/1-125       VTIMPKDI........................     125
167614068|Lanistes_ovum/1-125            VTIMPKDI........................     125
167614070|Lanistes_varicus/1-125          VTIMPKDI........................     125
167614072|Marisa_cornuarietis/1-125      VTIMPKDI........................     125
167614074|Pila_conica/1-125              VTIMPKDI........................     125
167614076|Pila_polita/1-125              VTIMPKDI........................     125
167614078|Pomacea_bridgesi/1-125         VTIMPKDI........................     125
167614082|Saulea_vitrea/1-125            VTIMPKDI........................     125
228205118|Viviparus_contectus/1-125      VTIMPKDI........................     125
228205120|Bellamya_pagodiformis/1-125    VTIMPKDI........................     125
157138412|Aedes_aegypti/1-134            VTIMPKDIQLARRGERA...............     134
228205122|Neothauma_tanganyicens/1-125   VTIMPKDI........................     125
228205124|Bellamya_sp./1-125             VTIMPKDI........................     125
228205126|Bellamya_trochlearis/1-125     VTIMPKDI........................     125
228205132|Bellamya_capillata/1-125       VTIMPKDI........................     125
228205136|Bellamya_crawshayi/1-125       VTIMPKDI........................     125
228205138|Bellamya_robertsoni/1-125      VTIMPKDI........................     125
228205142|Bellamya_mweruensis/1-125      VTIMPKDI........................     125
228205146|Bellamya_sp./1-125             VTIMPKDI........................     125
consensus                                VTIMPKDI
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
228205148|Bellamya_jeffreysi/1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205154|Bellamya_sp./1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205156|Bellamya_sp./1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205158|Bellamya_sp./1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205160|Bellamya_sp./1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205172|Larina_sp./1-125            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205174|Bellamya_bengalensis/1-125   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205178|Mekongia_sp./1-125           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205180|Sinotaia_sp./1-125           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205182|Angulyagra_sp./1-125         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205184|Filopaludina_sumatrens/1-125 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205186|Taia_polyzonata/1-125        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205190|Campeloma_decisum/1-125      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205192|Viviparus_ater/1-125         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205194|Viviparidae_sp./1-125        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205196|Bellamya_sp./1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
228205198|Cipangopaludina_japoni/1-125 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
239736585|Stenonema_sp./1-125          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
27923465|Anisomorpha_ferruginea/1-124  ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     116
27923467|Paraphasma_rufipes/1-124      ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     116
consensus                                MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

228205148|Bellamya_jeffreysi/1-125      VTIMPKDI.......................     125
228205154|Bellamya_sp./1-125            VTIMPKDI.......................     125
228205156|Bellamya_sp./1-125            VTIMPKDI.......................     125
228205158|Bellamya_sp./1-125            VTIMPKDI.......................     125
228205160|Bellamya_sp./1-125            VTIMPKDI.......................     125
228205172|Larina_sp./1-125              VTIMPKDI.......................     125
228205174|Bellamya_bengalensis/1-125    VTIMPKDI.......................     125
228205178|Mekongia_sp./1-125            VTIMPKDI.......................     125
228205180|Sinotaia_sp./1-125            VTIMPKDI.......................     125
228205182|Angulyagra_sp./1-125          VTIMPKDI.......................     125
228205184|Filopaludina_sumatrens/1-125  VTIMPKDI.......................     125
228205186|Taia_polyzonata/1-125         VTIMPKDI.......................     125
228205190|Campeloma_decisum/1-125       VTIMPKDI.......................     125
228205192|Viviparus_ater/1-125          VTIMPKDI.......................     125
228205194|Viviparidae_sp./1-125         VTIMPKDI.......................     125
228205196|Bellamya_sp./1-125            VTIMPKDI.......................     125
228205198|Cipangopaludina_japoni/1-125  VTIMPKDI.......................     125
239736585|Stenonema_sp./1-125           VTIMPKDI.......................     125
27923465|Anisomorpha_ferruginea/1-124   VTIMPKDI.......................     124
27923467|Paraphasma_rufipes/1-124       VTIMPKDI.......................     124
consensus                               VTIMPKDI
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
27923469|Phyllium_bioculatum/1-124   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
27923471|Timema_knulli/1-124   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
27923477|Sceptrophasma_langkawic/1-124   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
27923481|Neohirasea_maerens/1-124   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
27923487|Lopaphus_perakensis/1-124   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
161376204|Moselia_infuscata/1-126   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
27923489|Baculum_thaii/1-124   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
27923501|Lamponius_guerini/1-124   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
27923505|Bacillus_rossius/1-124   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
27923507|Sipyloidea_sipylus/1-124   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
27923509|Lopaphus_sphalerus/1-124   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
161376280|Isogenoides_hansoni/1-124   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
27923429|Grylloblatta_campodeifo/1-123   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
68509555|Madecocercus_sp./1-123   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
68509565|Diphlebia_coerulescens/1-123   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
149286287|Manayunkia_athalassia/1-123   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
228551908|Lamellibrachia_columna/1-123   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
228551910|Sclerolinum_brattstrom/1-123   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
297040906|Callobius_sp./1-123   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
297040930|Callobius_pauculus/1-123   ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
consensus                                                   ARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
27923469|Phyllium_bioculatum/1-124   VTIMPKDI.......................   124
27923471|Timema_knulli/1-124   VTIMPKDI.......................   124
27923477|Sceptrophasma_langkawic/1-124   VTIMPKDI.......................   124
27923481|Neohirasea_maerens/1-124   VTIMPKDI.......................   124
27923487|Lopaphus_perakensis/1-124   VTIMPKDI.......................   124
161376204|Moselia_infuscata/1-126   VTIMPKDIK......................   126
27923489|Baculum_thaii/1-124   VTIMPKDI.......................   124
27923501|Lamponius_guerini/1-124   VTIMPKDI.......................   124
27923505|Bacillus_rossius/1-124   VTIMPKDI.......................   124
27923507|Sipyloidea_sipylus/1-124   VTIMPKDI.......................   124
27923509|Lopaphus_sphalerus/1-124   VTIMPKDI.......................   124
161376280|Isogenoides_hansoni/1-124   VTIMPKDI.......................   124
27923429|Grylloblatta_campodeifo/1-123   VTIMPKD........................   123
68509555|Madecocercus_sp./1-123   VTIMPKD........................   123
68509565|Diphlebia_coerulescens/1-123   VTIMPKD........................   123
149286287|Manayunkia_athalassia/1-123   VTIMPKD........................   123
228551908|Lamellibrachia_columna/1-123   VTIMPKD........................   123
228551910|Sclerolinum_brattstrom/1-123   VTIMPKD........................   123
297040906|Callobius_sp./1-123   VTIMPKD........................   123
297040930|Callobius_pauculus/1-123   VTIMPKD........................   123
consensus                           VTIMPKD*
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040944|Callobius_nomeus/1-123                  ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     116
239736589|Habroleptoides_confusa/1-122              ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     116
68012843|Cephalopholis_igarashie/1-121              ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     115
121296113|Deropeltis_cf./1-121                      ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     115
121296147|Brachynauphoeta_foulpo/1-121               ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     115
121296171|Miomantis_sp./1-121                       ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     115
121296207|Phortioeca_phoraspoide/1-121               ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     115
149286293|Augeneriella_alata/1-121                  ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     115
161376250|Kimminsoperla_albomacu/1-121               ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     115
121296151|Hormetica_sp./1-120                       ................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     114
121296185|Panchlora_sp./1-120                       ................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     114
61677521|Cyathermia_naticoides/1-124                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
61677545|Scissurella_cf./1-124                      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509457|Epeorus_longimanus/1-124                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509511|Siphloplecton_interline/1-124               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509515|Plethogenesia_sp./1-124                    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
68509549|Oligoneuriella_rhenana/1-124               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
150247797|Acromantis_insularis/1-124                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
290918562|Sergia_sp./1-124                          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
33114094|Mytilus_chilensis/1-136                    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                                             *RTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040944|Callobius_nomeus/1-123                  VTIMPKD.......................     123
239736589|Habroleptoides_confusa/1-122              VTIMPK........................     122
68012843|Cephalopholis_igarashie/1-121              VTIMPK........................     121
121296113|Deropeltis_cf./1-121                      VTIMPK........................     121
121296147|Brachynauphoeta_foulpo/1-121              VTIMPK........................     121
121296171|Miomantis_sp./1-121                       VTIMPK........................     121
121296207|Phortioeca_phoraspoide/1-121              VTIMPK........................     121
149286293|Augeneriella_alata/1-121                  VTIMPK........................     121
161376250|Kimminsoperla_albomacu/1-121              VTIMPK........................     121
121296151|Hormetica_sp./1-120                       VTIMPK........................     120
121296185|Panchlora_sp./1-120                       VTIMPK........................     120
61677521|Cyathermia_naticoides/1-124                VTIMPKD.......................     124
61677545|Scissurella_cf./1-124                      VTIMPKD.......................     124
68509457|Epeorus_longimanus/1-124                   VTIMPKD.......................     124
68509511|Siphloplecton_interline/1-124              VTIMPKD.......................     124
68509515|Plethogenesia_sp./1-124                    VTIMPKD.......................     124
68509549|Oligoneuriella_rhenana/1-124               VTIMPKD.......................     124
150247797|Acromantis_insularis/1-124                VTIMPKD.......................     124
290918562|Sergia_sp./1-124                          VTIMPKD.......................     124
33114094|Mytilus_chilensis/1-136                    VTIMPKDIQLVRRIRGERA...........     136
consensus                                           VTIMPK*
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                      4 MARTKQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                          3                                                                                                                 3
                                          2                                                                                                                 2
                                          1                                                                                                                 1
297040736|Callobius_paskenta/1-124        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
297040750|Callobius_sp./1-124            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
297040774|Callobius_olympus/1-124         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
297040798|Callobius_sp./1-124            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
297040836|Callobius_pauculus/1-124        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
297040852|Callobius_sp./1-124            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
297040864|Callobius_enus/1-124            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
297040866|Callobius_guachama/1-124        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
297040868|Callobius_sp./1-124            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
297040870|Callobius_severus/1-124         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
297040880|Callobius_sierra/1-124          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
297040924|Callobius_sp./1-124            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
121296083|Aeluropoda_insignis/1-123       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
121296089|Archiblatta_hoeveni/1-123       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
121296091|Archimandrita_tessella/1-123    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
121296093|Balta_cf./1-123                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
121296095|Blaberus_sp./1-123              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
121296097|Blaptica_dubia/1-123            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
121296099|Blatta_orientalis/1-123          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
121296101|Blattella_germanica/1-123       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
consensus                                 MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                      4 VTIMPKD                                 4
                                          3                                         3
                                          2                                         2
                                          1                                         1
297040736|Callobius_paskenta/1-124        VTIMPKD.......................      124
297040750|Callobius_sp./1-124             VTIMPKD.......................      124
297040774|Callobius_olympus/1-124         VTIMPKD.......................      124
297040798|Callobius_sp./1-124             VTIMPKD.......................      124
297040836|Callobius_pauculus/1-124        VTIMPKD.......................      124
297040852|Callobius_sp./1-124             VTIMPKD.......................      124
297040864|Callobius_enus/1-124            VTIMPKD.......................      124
297040866|Callobius_guachama/1-124        VTIMPKD.......................      124
297040868|Callobius_sp./1-124             VTIMPKD.......................      124
297040870|Callobius_severus/1-124         VTIMPKD.......................      124
297040880|Callobius_sierra/1-124          VTIMPKD.......................      124
297040924|Callobius_sp./1-124             VTIMPKD.......................      124
121296083|Aeluropoda_insignis/1-123       VTIMPK........................      123
121296089|Archiblatta_hoeveni/1-123       VTIMPK........................      123
121296091|Archimandrita_tessella/1-123    VTIMPK........................      123
121296093|Balta_cf./1-123                 VTIMPK........................      123
121296095|Blaberus_sp./1-123              VTIMPK........................      123
121296097|Blaptica_dubia/1-123            VTIMPK........................      123
121296099|Blatta_orientalis/1-123         VTIMPK........................      123
121296101|Blattella_germanica/1-123       VTIMPK........................      123
consensus                                 VTIMPK*
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
121296103|Byrsotria_fumigata/1-123          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296105|Calolampra_irrorata/1-123          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296107|Cryptocercus_punctulat/1-123         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296111|Deropeltis_erythroceph/1-123         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296115|Diploptera_punctata/1-123            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296117|Drymaplaneta_cf./1-123               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296119|Ectobius_lapponicus/1-123            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296121|Ectobius_pallidus/1-123              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296123|Ectobius_panzeri/1-123               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296125|Elliptorhina_chopardi/1-123           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296127|Eremoblatta_subdiaphan/1-123          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296129|Ergaula_capucina/1-123               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296131|Eublaberus_posticus/1-123             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
161376246|Austronemoura_sp./1-126               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296133|Eurycotis_floridana/1-123             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296135|Eurycotis_pluto/1-123                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296137|Euthlastoblatta_sp./1-123             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296139|Euthlastoblatta_sp./1-123             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296141|Gromphadorhina_oblongo/1-123          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296143|Gyna_lurida/1-123                    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                                       MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                            VTIMPK

121296103|Byrsotria_fumigata/1-123              VTIMPK.......................     123
121296105|Calolampra_irrorata/1-123             VTIMPK.......................     123
121296107|Cryptocercus_punctulat/1-123          VTIMPK.......................     123
121296111|Deropeltis_erythroceph/1-123          VTIMPK.......................     123
121296115|Diploptera_punctata/1-123             VTIMPK.......................     123
121296117|Drymaplaneta_cf./1-123                VTIMPK.......................     123
121296119|Ectobius_lapponicus/1-123             VTIMPK.......................     123
121296121|Ectobius_pallidus/1-123               VTIMPK.......................     123
121296123|Ectobius_panzeri/1-123                VTIMPK.......................     123
121296125|Elliptorhina_chopardi/1-123           VTIMPK.......................     123
121296127|Eremoblatta_subdiaphan/1-123          VTIMPK.......................     123
121296129|Ergaula_capucina/1-123                VTIMPK.......................     123
121296131|Eublaberus_posticus/1-123             VTIMPK.......................     123
161376246|Austronemoura_sp./1-126               VTIMPKDIL....................     126
121296133|Eurycotis_floridana/1-123             VTIMPK.......................     123
121296135|Eurycotis_pluto/1-123                 VTIMPK.......................     123
121296137|Euthlastoblatta_sp./1-123             VTIMPK.......................     123
121296139|Euthlastoblatta_sp./1-123             VTIMPK.......................     123
121296141|Gromphadorhina_oblongo/1-123          VTIMPK.......................     123
121296143|Gyna_lurida/1-123                     VTIMPK.......................     123
consensus                                       VTIMPK
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
121296145|Heminauphoeta_sp./1-123                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296149|Henschoutedenia_flexiv/1-123               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296155|Ischnoptera_sp./1-123                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296157|Ischnoptera_sp./1-123                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296161|Leozehntnera_maxima/1-123                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296163|Loboptera_decipiens/1-123                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296165|Lucihormetica_subcinct/1-123               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296167|Macropanesthia_rhinoce/1-123               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296169|Metallyticus_violacea/1-123                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296173|Nauphoeta_cinerea/1-123                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296175|Neoblattella_sp./1-123                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296177|nr._Bantua/1-123                           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296179|Nyctibora_sp./1-123                        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296181|Nyctibora_acaciana/1-123                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296183|Opisthoplatia_oriental/1-123               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296187|Panchlora_azteca/1-123                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296189|Panesthia_sp./1-123                        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296191|Panesthia_cribrata/1-123                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296193|Paratemnopteryx_coulon/1-123               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296197|Periplaneta_australasi/1-123               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                                            MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

121296145|Heminauphoeta_sp./1-123                  VTIMPK.........................     123
121296149|Henschoutedenia_flexiv/1-123               VTIMPK.........................     123
121296155|Ischnoptera_sp./1-123                     VTIMPK.........................     123
121296157|Ischnoptera_sp./1-123                     VTIMPK.........................     123
121296161|Leozehntnera_maxima/1-123                  VTIMPK.........................     123
121296163|Loboptera_decipiens/1-123                  VTIMPK.........................     123
121296165|Lucihormetica_subcinct/1-123               VTIMPK.........................     123
121296167|Macropanesthia_rhinoce/1-123               VTIMPK.........................     123
121296169|Metallyticus_violacea/1-123                VTIMPK.........................     123
121296173|Nauphoeta_cinerea/1-123                   VTIMPK.........................     123
121296175|Neoblattella_sp./1-123                     VTIMPK.........................     123
121296177|nr._Bantua/1-123                           VTIMPK.........................     123
121296179|Nyctibora_sp./1-123                        VTIMPK.........................     123
121296181|Nyctibora_acaciana/1-123                   VTIMPK.........................     123
121296183|Opisthoplatia_oriental/1-123               VTIMPK.........................     123
121296187|Panchlora_azteca/1-123                     VTIMPK.........................     123
121296189|Panesthia_sp./1-123                        VTIMPK.........................     123
121296191|Panesthia_cribrata/1-123                   VTIMPK.........................     123
121296193|Paratemnopteryx_coulon/1-123               VTIMPK.........................     123
121296197|Periplaneta_australasi/1-123               VTIMPK.........................     123
consensus                                            VTIMPK
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
121296199|Periplaneta_brunnea/1-123      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296201|Perisphaeriinae_sp./1-123      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296203|Perisphaerus_sp./1-123      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296209|Phyllocrania_paradoxa/1-123      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296211|Polyphaga_aegyptiaca/1-123      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296213|Princisia_vanwaerbeki/1-123      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296217|Pseudoderopeltis_sp./1-123      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
194780134|Drosophila_ananassae/1-133      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296219|Pseudomops_sp./1-123            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296221|Pseudomops_sp./1-123            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296223|Pseudomops_oblongata/1-123      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296227|Pycnoscelus_surinamens/1-123    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296229|Rhyparobia_maderae/1-123        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296231|Schultesia_lampyridifo/1-123    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296233|Symploce_pallens/1-123          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296235|Temnopteryx_sp./1-123           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296237|Tenodera_sinensis/1-123         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296239|Tivia_sp./1-123                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
121296241|Xestoblatta_sp./1-123            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
126165799|Portia_labiata/1-123            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                                 MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                      VTIMPK

121296199|Periplaneta_brunnea/1-123       VTIMPK.........................     123
121296201|Perisphaeriinae_sp./1-123       VTIMPK.........................     123
121296203|Perisphaerus_sp./1-123          VTIMPK.........................     123
121296209|Phyllocrania_paradoxa/1-123     VTIMPK.........................     123
121296211|Polyphaga_aegyptiaca/1-123      VTIMPK.........................     123
121296213|Princisia_vanwaerbeki/1-123     VTIMPK.........................     123
121296217|Pseudoderopeltis_sp./1-123      VTIMPK.........................     123
194780134|Drosophila_ananassae/1-133      VTIMPKDIQQAHRIHG...............     133
121296219|Pseudomops_sp./1-123            VTIMPK.........................     123
121296221|Pseudomops_sp./1-123            VTIMPK.........................     123
121296223|Pseudomops_oblongata/1-123      VTIMPK.........................     123
121296227|Pycnoscelus_surinamens/1-123    VTIMPK.........................     123
121296229|Rhyparobia_maderae/1-123        VTIMPK.........................     123
121296231|Schultesia_lampyridifo/1-123    VTIMPK.........................     123
121296233|Symploce_pallens/1-123          VTIMPK.........................     123
121296235|Temnopteryx_sp./1-123           VTIMPK.........................     123
121296237|Tenodera_sinensis/1-123         VTIMPK.........................     123
121296239|Tivia_sp./1-123                 VTIMPK.........................     123
121296241|Xestoblatta_sp./1-123           VTIMPK.........................     123
126165799|Portia_labiata/1-123            VTIMPK.........................     123
consensus                                 VTIMPK
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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150247787|Humbertiella_similis/1-122          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
188037228|Themira_annulipes/1-122              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
297040928|Callobius_pauculus/1-121              ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     116
68509569|Griseargiolestes_albesc/1-120          ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     115
121296153|Ichromantis_dichroica/1-120           ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     115
239736571|Ameletopsis_perscitus/1-120           ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     115
119689969|Theridiinae_sp./1-118                 ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     114
119689977|Anelosimus_kohi/1-118                 ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     114
119690008|Anelosimus_guacamayos/1-118           ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     114
119690042|Anelosimus_studiosus/1-118            ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     114
119690048|Anelosimus_tosus/1-118                ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     114
119690052|Theridion_calcynatum/1-118             ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     114
27923483|Neohirasea_sp./1-116                   ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     114
27923491|Medauroidea_extradentat/1-116           ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     114
27923503|Eurycnema_goliath/1-116                 ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     114
108795482|Agelenopsis_aperta/1-115               ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
108795484|Anyphaena_californica/1-115            ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
108795488|Alopecosa_kochi/1-115                  ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
108795490|Barronopsis_barrowsi/1-115             ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
108795496|Calymmaria_sp./1-115                  ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
consensus                                         *KQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

150247787|Humbertiella_similis/1-122          VTIMP.........................     122
188037228|Themira_annulipes/1-122              VTIMP.........................     122
297040928|Callobius_pauculus/1-121              VTIMP.........................     121
68509569|Griseargiolestes_albesc/1-120          VTIMP.........................     120
121296153|Ichromantis_dichroica/1-120           VTIMP.........................     120
239736571|Ameletopsis_perscitus/1-120           VTIMP.........................     120
119689969|Theridiinae_sp./1-118                 VTIM..........................     118
119689977|Anelosimus_kohi/1-118                 VTIM..........................     118
119690008|Anelosimus_guacamayos/1-118           VTIM..........................     118
119690042|Anelosimus_studiosus/1-118            VTIM..........................     118
119690048|Anelosimus_tosus/1-118                VTIM..........................     118
119690052|Theridion_calcynatum/1-118             VTIM..........................     118
27923483|Neohirasea_sp./1-116                   VT............................     116
27923491|Medauroidea_extradentat/1-116          VT............................     116
27923503|Eurycnema_goliath/1-116                VT............................     116
108795482|Agelenopsis_aperta/1-115              VT............................     115
108795484|Anyphaena_californica/1-115           VT............................     115
108795488|Alopecosa_kochi/1-115                 VT............................     115
108795490|Barronopsis_barrowsi/1-115            VT............................     115
108795496|Calymmaria_sp./1-115                  VT............................     115
consensus                                       VT**
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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108795498|Cicurina_sp./1-115          ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      113
38564129|Drosophila_persimilis/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      117
108795500|Cybaeus_morosus/1-115         ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      113
108795502|Pimus_sp./1-115             ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      113
108795506|Neoantistea_agilis/1-115     ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      113
108795508|Neoramia_janus/1-115         ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      113
108795510|Pimus_sp./1-115             ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      113
108795514|Tegenaria_domestica/1-115   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      113
108795516|Tengella_radiata/1-115      ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      113
108795524|Eurocoelotes_inermis/1-115  ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      113
108795528|Neolana_dalmasi/1-115       ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      113
108795532|Stiphidion_facetum/1-115    ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      113
109134696|Oecleus_sp./1-115           ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      113
109134714|Lappida_sp./1-115           ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      113
109134742|Sephena_sp./1-115           ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      113
68012865|Diploprion_bifasciatum/1-119 ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      114
121296205|Phoetalia_pallida/1-120     ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      114
121296225|Pseudophoraspis_sp./1-120   ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      114
68012933|Plectropomus_leopardus/1-119 ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      114
68012979|Liopropoma_carmabi/1-119     ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      114
consensus                                                      KQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

108795498|Cicurina_sp./1-115          VT.............................      115
38564129|Drosophila_persimilis/1-136  VTIMPKGIQLARRIRGERA.............      136
108795500|Cybaeus_morosus/1-115        VT.............................      115
108795502|Pimus_sp./1-115              VT.............................      115
108795506|Neoantistea_agilis/1-115     VT.............................      115
108795508|Neoramia_janus/1-115         VT.............................      115
108795510|Pimus_sp./1-115              VT.............................      115
108795514|Tegenaria_domestica/1-115    VT.............................      115
108795516|Tengella_radiata/1-115       VT.............................      115
108795524|Eurocoelotes_inermis/1-115   VT.............................      115
108795528|Neolana_dalmasi/1-115        VT.............................      115
108795532|Stiphidion_facetum/1-115     VT.............................      115
109134696|Oecleus_sp./1-115            VT.............................      115
109134714|Lappida_sp./1-115            VT.............................      115
109134742|Sephena_sp./1-115            VT.............................      115
68012865|Diploprion_bifasciatum/1-119 VTIMP...........................      119
121296205|Phoetalia_pallida/1-120     VTIMPK..........................      120
121296225|Pseudophoraspis_sp./1-120   VTIMPK..........................      120
68012933|Plectropomus_leopardus/1-119 VTIMP...........................      119
68012979|Liopropoma_carmabi/1-119     VTIMP...........................      119
consensus                             VT
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X non conserved
X similar
X ≥50% conserved
X ≥80% conserved

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logo                                                 4 TKQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                     3                                                                                                                                                 3
                                                     2                                                                                                                                                 2
                                                     1                                                                                                                                                 1
68012984|Belonoperca_chabanaudi/1-119                ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
89521270|Cambarus_hamulatus/1-119                   ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
89521284|Cambarus_sp./1-119                         ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
89521286|Cambarus_brachydactylus/1-119              ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
89521288|Cambarus_friaufi/1-119                    ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
89521290|Cambarus_gentryi/1-119                    ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
89521292|Cambarus_jonesi/1-119                      ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
89521296|Cambarus_sp./1-119                         ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
150247915|Hestiasula_sp./1-119                     ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
238817465|Serratella_serrata/1-119                 ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
47498304|Machilis_sp./1-118                        ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498306|Blattidae_sp./1-118                        ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498308|Blattidae_sp./1-118                        ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498310|Cryptocercus_punctulatu/1-118              ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498312|Blatta_orientalis/1-118                    ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
61856404|Bos_taurus/1-136                          ...............MTRTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
161376192|Pelurgoperla_personata/1-123              ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   115
27923495|Tropidoderus_childrenii/1-122              ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
297040790|Callobius_sp./1-121                       ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   114
47498320|Forficula_sp./1-118                        ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
consensus                                            *KQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                 4 VTIMP                                  4
                                                     3                                        3
                                                     2                                        2
                                                     1                                        1
68012984|Belonoperca_chabanaudi/1-119                VTIMP.............................   119
89521270|Cambarus_hamulatus/1-119                    VTIMP.............................   119
89521284|Cambarus_sp./1-119                          VTIMP.............................   119
89521286|Cambarus_brachydactylus/1-119               VTIMP.............................   119
89521288|Cambarus_friaufi/1-119                      VTIMP.............................   119
89521290|Cambarus_gentryi/1-119                      VTIMP.............................   119
89521292|Cambarus_jonesi/1-119                       VTIMP.............................   119
89521296|Cambarus_sp./1-119                          VTIMP.............................   119
150247915|Hestiasula_sp./1-119                       VTIMP.............................   119
238817465|Serratella_serrata/1-119                   VTIMP.............................   119
47498304|Machilis_sp./1-118                          VTIMP.............................   118
47498306|Blattidae_sp./1-118                         VTIMP.............................   118
47498308|Blattidae_sp./1-118                         VTIMP.............................   118
47498310|Cryptocercus_punctulatu/1-118               VTIMP.............................   118
47498312|Blatta_orientalis/1-118                     VTIMP.............................   118
61856404|Bos_taurus/1-136                            VTIMPKDIQLARRIRGERA...............   136
161376192|Pelurgoperla_personata/1-123               VTIMPKDI.........................   123
27923495|Tropidoderus_childrenii/1-122               VTIMPKDI.........................   122
297040790|Callobius_sp./1-121                        VTIMPKD..........................   121
47498320|Forficula_sp./1-118                         VTIMP.............................   118
consensus                                            VTIMP
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
47498326|Prionoxystus_robiniae/1-118   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498328|Boreus_westwoodi/1-118          ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498330|Panorpa_bicornuta/1-118         ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498332|Acromantis_sp./1-118            ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498334|Chrysomantis_sp./1-118          ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498336|Gongylus_gongylodes/1-118        ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498338|Sclerophasma_paresisens/1-118   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498340|Tyrannophasma_gladiator/1-118   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498342|Sialis_hamata/1-118              ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498344|Hemerobius_sp./1-118            ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498348|Microcentrum_rhombifoli/1-118   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498350|Romalea_sp./1-118               ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498352|Gryllus_assimilis/1-118          ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498354|Ceuthophilus_utahensis/1-118    ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498356|Gryllotalpidae_sp./1-118         ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498358|Cyphoderris_monstrosa/1-118     ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498360|Morsea_californica/1-118         ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498362|Camptonotus_carolinensi/1-118   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498364|Oemopteryx_vanduzeea/1-118      ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
47498366|Pteronarcys_californica/1-118   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
consensus                                                            KQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
47498326|Prionoxystus_robiniae/1-118   VTIMP.............................   118
47498328|Boreus_westwoodi/1-118          VTIMP.............................   118
47498330|Panorpa_bicornuta/1-118         VTIMP.............................   118
47498332|Acromantis_sp./1-118            VTIMP.............................   118
47498334|Chrysomantis_sp./1-118          VTIMP.............................   118
47498336|Gongylus_gongylodes/1-118        VTIMP.............................   118
47498338|Sclerophasma_paresisens/1-118   VTIMP.............................   118
47498340|Tyrannophasma_gladiator/1-118   VTIMP.............................   118
47498342|Sialis_hamata/1-118              VTIMP.............................   118
47498344|Hemerobius_sp./1-118            VTIMP.............................   118
47498348|Microcentrum_rhombifoli/1-118   VTIMP.............................   118
47498350|Romalea_sp./1-118               VTIMP.............................   118
47498352|Gryllus_assimilis/1-118          VTIMP.............................   118
47498354|Ceuthophilus_utahensis/1-118    VTIMP.............................   118
47498356|Gryllotalpidae_sp./1-118         VTIMP.............................   118
47498358|Cyphoderris_monstrosa/1-118     VTIMP.............................   118
47498360|Morsea_californica/1-118         VTIMP.............................   118
47498362|Camptonotus_carolinensi/1-118   VTIMP.............................   118
47498364|Oemopteryx_vanduzeea/1-118      VTIMP.............................   118
47498366|Pteronarcys_californica/1-118   VTIMP.............................   118
consensus                                VTIMP
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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47498368|Trinotoperla_nivata/1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
47498370|Aphanicerca_capensis/1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
47498372|Tallaperla_lobata/1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
47498374|Scopura_montana/1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
47498376|Hydropsyche_sp./1-118                                                                                                                                
47498378|Zorotypus_hubbardi/1-118                                                                                                                
149286291|Novafabricia_labrus/1-118                                                                                
150247773|Amorphoscelis_annulico/1-121                                                                
290918560|Sicyonia_ingentis/1-121                                                                
242020954|Pediculus_humanus/1-136                                                                
297040946|Callobius_nomeus/1-120                                                                
149286309|Bispira_melanostigma/1-119                                                                
149286299|Branchiomma_sp./1-118                                                                
196175143|Fulgora_castresii/1-118                                                                
196175167|Enchophora_stillifera/1-118                                                                
196175207|Anecphora_sp./1-118                                                                
196175209|Pyrops_delessertii/1-118                                                                
196175211|Odontoptera_toulgoeti/1-118                                                                
196175213|Diareusa_annularis/1-118                                                                
300248335|Tomaspis_biolleyi/1-118                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                
47498368|Trinotoperla_nivata/1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
47498370|Aphanicerca_capensis/1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
47498372|Tallaperla_lobata/1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
47498374|Scopura_montana/1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
47498376|Hydropsyche_sp./1-118                                                                                                                                
47498378|Zorotypus_hubbardi/1-118                                                                                                                
149286291|Novafabricia_labrus/1-118                                                                                
150247773|Amorphoscelis_annulico/1-121                                                                
290918560|Sicyonia_ingentis/1-121                                                                
242020954|Pediculus_humanus/1-136                                                                
297040946|Callobius_nomeus/1-120                                                                
149286309|Bispira_melanostigma/1-119                                                                
149286299|Branchiomma_sp./1-118                                                                
196175143|Fulgora_castresii/1-118                                                                
196175167|Enchophora_stillifera/1-118                                                                
196175207|Anecphora_sp./1-118                                                                
196175209|Pyrops_delessertii/1-118                                                                
196175211|Odontoptera_toulgoeti/1-118                                                                
196175213|Diareusa_annularis/1-118                                                                
300248335|Tomaspis_biolleyi/1-118                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300248395|Notozulia_sp./1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300248401|Hemitomaspis_caligata/1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300248409|Epicranion_sp./1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300248419|Notozulia_entreriana/1-118                                                                                                                                                                                                                                                                                                                                                                                
300248437|Sphenorhina_parambae/1-118                                                                                                                                                
300248441|Locris_maculata/1-118                                                                                
300248445|Locris_pullata/1-118                                                                
300248447|Machadoa_invenusta/1-118                                                
300248449|Pectinariophyes_hyalin/1-118                                
300248451|Colsa_orientalis/1-118                                
300248459|Poophilus_sp./1-118                                
300248461|Apomachaerota_reticula/1-118                                
300248463|Grypomachaerota_turbin/1-118                                
257783611|Pomacea_camena/1-117                                
119689990|Anelosimus_domingo/1-116                                
119690014|Kochiura_rosea/1-116                                
257783581|Pomacea_paludosa/1-116                                
283857359|Adama_elongata/1-116                                
109134720|Rhaphiophora_sp./1-115                                
126165769|Cocalus_murinus/1-115                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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300248395|Notozulia_sp./1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300248401|Hemitomaspis_caligata/1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300248409|Epicranion_sp./1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300248419|Notozulia_entreriana/1-118                                                                                                                                                
300248437|Sphenorhina_parambae/1-118                                                                
300248441|Locris_maculata/1-118                                                
300248445|Locris_pullata/1-118                                
300248447|Machadoa_invenusta/1-118                                
300248449|Pectinariophyes_hyalin/1-118                                
300248451|Colsa_orientalis/1-118                                
300248459|Poophilus_sp./1-118                                
300248461|Apomachaerota_reticula/1-118                                
300248463|Grypomachaerota_turbin/1-118                                
257783611|Pomacea_camena/1-117                                
119689990|Anelosimus_domingo/1-116                                
119690014|Kochiura_rosea/1-116                                
257783581|Pomacea_paludosa/1-116                                
283857359|Adama_elongata/1-116                                
109134720|Rhaphiophora_sp./1-115                                
126165769|Cocalus_murinus/1-115                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
126165785|Neobrettus_tibialis/1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
126165797|Portia_heteroidea/1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
149286305|Chone_sp./1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
195359625|Drosophila_sechellia/1-136  ...............MAHTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
188037172|Dicranosepsis_hamata/1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
188037182|Meroplius_fukuharai/1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
188037206|Sepsis_flavimana/1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
220980649|Exopalaemon_styliferus/1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
220980651|Macrobrachium_asperulu/1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
220980653|Macrobrachium_callirrh/1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
220980659|Macrobrachium_aff./1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
220980667|Macrobrachium_esculent/1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
220980673|Macrobrachium_nr./1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
220980675|Macrobrachium_hainanen/1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
220980677|Macrobrachium_horstii/1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
220980683|Macrobrachium_jaroense/1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
220980685|Macrobrachium_lanchest/1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
220980691|Macrobrachium_latidact/1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
220980701|Macrobrachium_malayanu/1-115  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
68509491|Murphyella_sp./1-120  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
consensus                                                                  QTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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126165785|Neobrettus_tibialis/1-115  VTI.............................  115
126165797|Portia_heteroidea/1-115  VTI.............................  115
149286305|Chone_sp./1-115  VTI.............................  115
195359625|Drosophila_sechellia/1-136  VTIMPKDIQLARRIRGERA.............  136
188037172|Dicranosepsis_hamata/1-115  VTI.............................  115
188037182|Meroplius_fukuharai/1-115  VTI.............................  115
188037206|Sepsis_flavimana/1-115  VTI.............................  115
220980649|Exopalaemon_styliferus/1-115  VTI.............................  115
220980651|Macrobrachium_asperulu/1-115  VTI.............................  115
220980653|Macrobrachium_callirrh/1-115  VTI.............................  115
220980659|Macrobrachium_aff./1-115  VTI.............................  115
220980667|Macrobrachium_esculent/1-115  VTI.............................  115
220980673|Macrobrachium_nr./1-115  VTI.............................  115
220980675|Macrobrachium_hainanen/1-115  VTI.............................  115
220980677|Macrobrachium_horstii/1-115  VTI.............................  115
220980683|Macrobrachium_jaroense/1-115  VTI.............................  115
220980685|Macrobrachium_lanchest/1-115  VTI.............................  115
220980691|Macrobrachium_latidact/1-115  VTI.............................  115
220980701|Macrobrachium_malayanu/1-115  VTI.............................  115
68509491|Murphyella_sp./1-120  VTIMPKDI.......................  120
consensus                                  VTI
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
149286313|Spirobranchus_lima/1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
220980713|Macrobrachium_pilimanu/1-115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
220980715|Macrobrachium_placidul/1-115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
220980723|Macrobrachium_lanatum/1-115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
220980727|Macrobrachium_sintange/1-115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
220980729|Macrobrachium_trompii/1-115                                                                                                                                
220980731|Macrobrachium_urayang/1-115                                                                
220980733|Macrobrachium_venustum/1-115                                
220980741|Palaemon_debilis/1-115                
220980743|Palaemon_pacificus/1-115                
220980745|Palaemon_semmelinkii/1-115                
220980747|Palaemon_serrifer/1-115                
257783541|Marisa_cornuarietis/1-115                
257783549|Asolene_platae/1-115                
257783555|Felipponea_iheringi/1-115                
257783607|Pomacea_sordida/1-115                
257783613|Pomacea_patula/1-115                
297040776|Callobius_sp./1-124                
297040860|Callobius_sp./1-124                
297040872|Callobius_sp./1-124                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
149286313|Spirobranchus_lima/1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
220980713|Macrobrachium_pilimanu/1-115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
220980715|Macrobrachium_placidul/1-115                                                                
220980723|Macrobrachium_lanatum/1-115                                
220980727|Macrobrachium_sintange/1-115                
220980729|Macrobrachium_trompii/1-115                
220980731|Macrobrachium_urayang/1-115                
220980733|Macrobrachium_venustum/1-115                
220980741|Palaemon_debilis/1-115                
220980743|Palaemon_pacificus/1-115                
220980745|Palaemon_semmelinkii/1-115                
220980747|Palaemon_serrifer/1-115                
257783541|Marisa_cornuarietis/1-115                
257783549|Asolene_platae/1-115                
257783555|Felipponea_iheringi/1-115                
257783607|Pomacea_sordida/1-115                
257783613|Pomacea_patula/1-115                
297040776|Callobius_sp./1-124                
297040860|Callobius_sp./1-124                
297040872|Callobius_sp./1-124                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
119689981|Anelosimus_kohi/1-117                 .................SKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     114
296784547|Acantholobulus_bermude/1-115            ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784549|Hexapanopeus_angustifr/1-115            ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784551|Panopeus_herbstii/1-115                 ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784553|Eriphia_verrucosa/1-115                 ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784555|Ozius_reticulatus/1-115                 ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784563|Paractaea_rufopunctata/1-115             ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784565|Medaeus_elegans/1-115                   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784571|Tiaramedon_spinosum/1-115                ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784573|Eurytium_limosum/1-115                  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784583|Edwardsium_lobipes/1-115                 ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784587|Frevillea_barbata/1-115                 ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784589|Allactaea_lithostrota/1-115              ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784591|Carpoporus_papulosus/1-115               ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784593|Actaea_bifrons/1-115                    ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784595|Cyclodius_obscurus/1-115                ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784603|Pilumnus_sayi/1-115                    ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
119689992|Anelosimus_dubiosus/1-117                ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
119689998|Anelosimus_elegans/1-117                 ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
119690000|Theridiinae_sp./1-117                   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
consensus                                          QTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

119689981|Anelosimus_kohi/1-117                 VTI.............................     117
296784547|Acantholobulus_bermude/1-115            VTI.............................     115
296784549|Hexapanopeus_angustifr/1-115            VTI.............................     115
296784551|Panopeus_herbstii/1-115                 VTI.............................     115
296784553|Eriphia_verrucosa/1-115                 VTI.............................     115
296784555|Ozius_reticulatus/1-115                 VTI.............................     115
296784563|Paractaea_rufopunctata/1-115            VTI.............................     115
296784565|Medaeus_elegans/1-115                   VTI.............................     115
296784571|Tiaramedon_spinosum/1-115               VTI.............................     115
296784573|Eurytium_limosum/1-115                  VTI.............................     115
296784583|Edwardsium_lobipes/1-115                VTI.............................     115
296784587|Frevillea_barbata/1-115                 VTI.............................     115
296784589|Allactaea_lithostrota/1-115             VTI.............................     115
296784591|Carpoporus_papulosus/1-115              VTI.............................     115
296784593|Actaea_bifrons/1-115                    VTI.............................     115
296784595|Cyclodius_obscurus/1-115                VTI.............................     115
296784603|Pilumnus_sayi/1-115                     VTI.............................     115
119689992|Anelosimus_dubiosus/1-117               VTIM............................     117
119689998|Anelosimus_elegans/1-117                VTIM............................     117
119690000|Theridiinae_sp./1-117                   VTIM............................     117
consensus                                          VTI
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                 4 KQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                     3                                                                                                                                                 3
                                                     2                                                                                                                                                 2
                                                     1                                                                                                                                                 1

119690010|Anelosimus_guacamayos/1-117                ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
119690020|Moneta_sp./1-117                           ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
119690022|Anelosimus_nigrescens/1-117                ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
119690024|Anelosimus_oritoyacu/1-117                ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
119690038|Anelosimus_studiosus/1-117                ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
126165795|Portia_fimbriata/1-117                    ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
146217895|Nocticola_sp./1-117                       ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
146217897|Nocticola_australiensi/1-117               ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
149286295|Amphicorina_mobilis/1-117                 ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
226597106|Cybaeus_tetricus/1-117                    ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857361|Abimwa_sp./1-117                          ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857365|Acostemma_sp./1-117                       ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857369|Aflexia_rubranura/1-117                   ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857371|Aphrodes_bicincta/1-117                   ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
121296159|Latiblattella_sp./1-123                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
283857373|Arrugada_affinis/1-117                    ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857375|Atanus_sp./1-117                          ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857377|Athysanus_argentarius/1-117                ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857379|Bahita_sp./1-117                           ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857383|Balclutha_neglecta/1-117                  ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
consensus                                            KQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                                 4 VTIM                                                                   4
                                                     3                                                                        3
                                                     2                                                                        2
                                                     1                                                                        1

119690010|Anelosimus_guacamayos/1-117                VTIM.............................   117
119690020|Moneta_sp./1-117                           VTIM.............................   117
119690022|Anelosimus_nigrescens/1-117                VTIM.............................   117
119690024|Anelosimus_oritoyacu/1-117                VTIM.............................   117
119690038|Anelosimus_studiosus/1-117                VTIM.............................   117
126165795|Portia_fimbriata/1-117                    VTIM.............................   117
146217895|Nocticola_sp./1-117                       VTIM.............................   117
146217897|Nocticola_australiensi/1-117              VTIM.............................   117
149286295|Amphicorina_mobilis/1-117                 VTIM.............................   117
226597106|Cybaeus_tetricus/1-117                    VTIM.............................   117
283857361|Abimwa_sp./1-117                          VTIM.............................   117
283857365|Acostemma_sp./1-117                       VTIM.............................   117
283857369|Aflexia_rubranura/1-117                   VTIM.............................   117
283857371|Aphrodes_bicincta/1-117                   VTIM.............................   117
121296159|Latiblattella_sp./1-123                   VTIMPR...........................   123
283857373|Arrugada_affinis/1-117                    VTIM.............................   117
283857375|Atanus_sp./1-117                          VTIM.............................   117
283857377|Athysanus_argentarius/1-117               VTIM.............................   117
283857379|Bahita_sp./1-117                          VTIM.............................   117
283857383|Balclutha_neglecta/1-117                  VTIM.............................   117
consensus                                            VTIM
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 ┐                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 ┘
                                                      ART KQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4 ┐
283857387|Bandaromimus_parvicaud/1-117   ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857391|Bonaspeia_sp./1-117          ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857393|Deltocephalinae_sp./1-117     ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
238817433|Cincticostella_elongat/1-120 ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
239736573|Chiloporter_sp./1-120        ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
283857395|Brazosa_picturella/1-117     ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857399|Cerrillus_sp./1-117          ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857401|Cerus_goudanus/1-117          ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857409|Cicadula_quadrinotata/1-117  ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857415|Copididonus_hyalinipen/1-117 ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857421|Deltocephalus_sp./1-117      ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857423|Deltocephalini_sp./1-117     ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857425|Doratura_stylata/1-117       ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857427|Attenuipyga_vanduzeei/1-117  ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857429|Dorydiella_sp./1-117          ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857431|Drabescus_sp./1-117          ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857433|Drakensbergena_retrosp/1-117 ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857437|Euacanthella_palustris/1-117 ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857443|Euscelis_seriphidii/1-117    ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
283857445|Eutettix_pictus/1-117        ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
consensus                                             KQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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                                                      3 ┤        3 ┤
                                                      2 ┤        2 ┤
                                                      1 ┘        1 ┘
283857387|Bandaromimus_parvicaud/1-117   VTIM.............................   117
283857391|Bonaspeia_sp./1-117            VTIM.............................   117
283857393|Deltocephalinae_sp./1-117      VTIM.............................   117
238817433|Cincticostella_elongat/1-120   VTIM.............................   120
239736573|Chiloporter_sp./1-120          VTIM.............................   120
283857395|Brazosa_picturella/1-117       VTIM.............................   117
283857399|Cerrillus_sp./1-117            VTIM.............................   117
283857401|Cerus_goudanus/1-117           VTIM.............................   117
283857409|Cicadula_quadrinotata/1-117    VTIM.............................   117
283857415|Copididonus_hyalinipen/1-117   VTIM.............................   117
283857421|Deltocephalus_sp./1-117        VTIM.............................   117
283857423|Deltocephalini_sp./1-117       VTIM.............................   117
283857425|Doratura_stylata/1-117         VTIM.............................   117
283857427|Attenuipyga_vanduzeei/1-117    VTIM.............................   117
283857429|Dorydiella_sp./1-117           VTIM.............................   117
283857431|Drabescus_sp./1-117            VTIM.............................   117
283857433|Drakensbergena_retrosp/1-117   VTIM.............................   117
283857437|Euacanthella_palustris/1-117   VTIM.............................   117
283857443|Euscelis_seriphidii/1-117      VTIM.............................   117
283857445|Eutettix_pictus/1-117          VTIM.............................   117
consensus                                VTIM
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857461|Grypotes_staurus/1-117                  ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857463|Hecalus_viridis/1-117                    ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857467|Hishimonus_phycitis/1-117                ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857471|Idioceromimus_delector/1-117              ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857477|Korana_rorulenta/1-117                   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857479|Kramerana_junina/1-117                   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857481|Laevicephalus_monticol/1-117              ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857483|Limotettix_striola/1-117                 ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
292628408|Danio_rerio/1-147                        ....MLKTSYTIFDKMARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     128
283857489|Macrosteles_sp./1-117                   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857493|Mukaria_maculata/1-117                   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857495|Napo_sp./1-117                           ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857511|Pachymetopius_decoratu/1-117              ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857515|Parabolopona_sp./1-117                   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857517|Paralimnus_angusticeps/1-117              ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857521|Paraphlepsius_nebulosu/1-117              ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857525|Penthimiola_sp./1-117                    ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857527|Deltocephalinae_sp./1-117                ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857529|Phlepsius_intricatus/1-117                ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
283857531|Phlogotettix_cyclops/1-117                ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
consensus                                           KQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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283857461|Grypotes_staurus/1-117                  VTIM............................     117
283857463|Hecalus_viridis/1-117                    VTIM............................     117
283857467|Hishimonus_phycitis/1-117                VTIM............................     117
283857471|Idioceromimus_delector/1-117              VTIM............................     117
283857477|Korana_rorulenta/1-117                   VTIM............................     117
283857479|Kramerana_junina/1-117                   VTIM............................     117
283857481|Laevicephalus_monticol/1-117              VTIM............................     117
283857483|Limotettix_striola/1-117                 VTIM............................     117
292628408|Danio_rerio/1-147                        VTIMPKDIQLARRIRGERA.............     147
283857489|Macrosteles_sp./1-117                    VTIM............................     117
283857493|Mukaria_maculata/1-117                   VTIM............................     117
283857495|Napo_sp./1-117                           VTIM............................     117
283857511|Pachymetopius_decoratu/1-117              VTIM............................     117
283857515|Parabolopona_sp./1-117                   VTIM............................     117
283857517|Paralimnus_angusticeps/1-117              VTIM............................     117
283857521|Paraphlepsius_nebulosu/1-117              VTIM............................     117
283857525|Penthimiola_sp./1-117                    VTIM............................     117
283857527|Deltocephalinae_sp./1-117                VTIM............................     117
283857529|Phlepsius_intricatus/1-117                VTIM............................     117
283857531|Phlogotettix_cyclops/1-117                VTIM............................     117
consensus                                           VTIM
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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283857535|Polyamia_compacta/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857537|Paradorydium_lanceolat/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857539|Renosteria_waverena/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857541|Scaphotettix_viridis/1-117                                                                                                                                                                                                                                                                                
283857551|Agrica_arisana/1-117                                                                                                                                                                                
283857555|Tenucephalus_sp./1-117                                                                                                                                
283857561|Tropicanus_chiapasus/1-117                                                                                
283857563|Twiningia_sp./1-117                                                                
283857565|Neohegira_sp./1-117                                                
283857567|Xestocephalus_desertor/1-117                                
283857569|Yungasia_bidentata/1-117                                
297040734|Callobius_panther/1-117                                
297040752|Callobius_tehama/1-117                                
297040754|Amaurobius_latescens/1-117                                
297040778|Callobius_rothi/1-117                                
297040794|Callobius_sp./1-117                                
297040800|Callobius_sp./1-117                                
297040806|Callobius_paynei/1-117                                
297040808|Callobius_manzanita/1-117                                
297040820|Callobius_angelus/1-117                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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283857535|Polyamia_compacta/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857537|Paradorydium_lanceolat/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857539|Renosteria_waverena/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857541|Scaphotettix_viridis/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857551|Agrica_arisana/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857555|Tenucephalus_sp./1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857561|Tropicanus_chiapasus/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857563|Twiningia_sp./1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857565|Neohegira_sp./1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857567|Xestocephalus_desertor/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857569|Yungasia_bidentata/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040734|Callobius_panther/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040752|Callobius_tehama/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040754|Amaurobius_latescens/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040778|Callobius_rothi/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040794|Callobius_sp./1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040800|Callobius_sp./1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040806|Callobius_paynei/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040808|Callobius_manzanita/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040820|Callobius_angelus/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
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297040822|Callobius_nomeus/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040824|Callobius_olympus/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
61677489|Fissurella_virescens/1-125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
61677493|Montfortula_rugosa/1-125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040826|Callobius_severus/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040830|Callobius_enus/1-117                                                                                                                                                                                                                                                                                
297040832|Callobius_sp./1-117                                                                                                                                
297040834|Callobius_kamelus/1-117                                                                                
297040838|Callobius_pauculus/1-117                                                
297040840|Callobius_sierra/1-117                                
297040842|Callobius_paskenta/1-117                
297040846|Callobius_sp./1-117                
297040848|Callobius_arizonicus/1-117                
300248315|Zulia_carbonaria/1-117                
300248337|Huaina_inca/1-117                
300248341|Aufidus_trifasciatus/1-117                
300248359|Laccogrypota_grandis/1-117                
300248361|Avernus_ochraceiventri/1-117                
300248393|Philagra_sp./1-117                
300248399|Eicissus_sp./1-117                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040822|Callobius_nomeus/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040824|Callobius_olympus/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
61677489|Fissurella_virescens/1-125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
61677493|Montfortula_rugosa/1-125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040826|Callobius_severus/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040830|Callobius_enus/1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040832|Callobius_sp./1-117                                                                                                                                
297040834|Callobius_kamelus/1-117                                                                                
297040838|Callobius_pauculus/1-117                                                
297040840|Callobius_sierra/1-117                                
297040842|Callobius_paskenta/1-117                
297040846|Callobius_sp./1-117                
297040848|Callobius_arizonicus/1-117                
300248315|Zulia_carbonaria/1-117                
300248337|Huaina_inca/1-117                
300248341|Aufidus_trifasciatus/1-117                
300248359|Laccogrypota_grandis/1-117                
300248361|Avernus_ochraceiventri/1-117                
300248393|Philagra_sp./1-117                
300248399|Eicissus_sp./1-117                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300248407|Isozulia_nr./1-117                  ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
300248417|Aufidus_nr./1-117                    ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
300248425|Monecphora_pallida/1-117             ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
300248427|Hindola_geisha/1-117                 ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
300248435|Mesoptyelus_sp./1-117                ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
109134726|Platybrachys_cf./1-116                ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
109134728|Olonia_sp./1-116                      ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
109134730|Platybrachys_cf./1-116                ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
109134794|Aprivesa_sp./1-116                    ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
119689975|Anelosimus_kohi/1-116                ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
119689986|Coleosoma_acutiventer/1-116            ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
119689988|Anelosimus_domingo/1-116               ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
126165793|Portia_africana/1-116                 ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
126165801|Portia_quei/1-116                     ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
188037170|Dicranosepsis_emiliae/1-116            ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
188037174|Dicranosepsis_javanica/1-116           ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
188037222|Sepsis_secunda/1-116                  ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
156339411|Nematostella_vectensis/1-140           ...........IADEMARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    121
283857435|Elymana_acuma/1-116                   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
283857447|Evinus_peri/1-116                     ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
consensus                                        KQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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300248407|Isozulia_nr./1-117                  VTIM.............................    117
300248417|Aufidus_nr./1-117                    VTIM.............................    117
300248425|Monecphora_pallida/1-117             VTIM.............................    117
300248427|Hindola_geisha/1-117                 VTIM.............................    117
300248435|Mesoptyelus_sp./1-117                VTIM.............................    117
109134726|Platybrachys_cf./1-116                VTI..............................    116
109134728|Olonia_sp./1-116                      VTI..............................    116
109134730|Platybrachys_cf./1-116                VTI..............................    116
109134794|Aprivesa_sp./1-116                    VTI..............................    116
119689975|Anelosimus_kohi/1-116                 VTI..............................    116
119689986|Coleosoma_acutiventer/1-116           VTI..............................    116
119689988|Anelosimus_domingo/1-116              VTI..............................    116
126165793|Portia_africana/1-116                 VTI..............................    116
126165801|Portia_quei/1-116                     VTI..............................    116
188037170|Dicranosepsis_emiliae/1-116           VTI..............................    116
188037174|Dicranosepsis_javanica/1-116          VTI..............................    116
188037222|Sepsis_secunda/1-116                  VTI..............................    116
156339411|Nematostella_vectensis/1-140          VTIMPKDIQLARRIRGERA..............    140
283857435|Elymana_acuma/1-116                   VTI..............................    116
283857447|Evinus_peri/1-116                     VTI..............................    116
consensus                                        VTI
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857503|Nesothamnus_sanguineus/1-116   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
300248327|Ocoaxo_ornatipennis/1-116   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
300248339|Polychaetophyes_serpul/1-116   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
300248345|Pectinariophyes_stalii/1-116   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
300248347|Catrimania_insignis/1-116   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
300248397|Jeanneliensia_sublimpi/1-116   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
300248405|Enderleinia_bispina/1-116   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
300248415|Epicranion_sp./1-116   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
300248455|Clovia_sp./1-116   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
109134776|Makota_sp./1-115   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
109134784|Bladina_sp./1-115   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
109134788|Euricania_sp./1-115   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
119689996|Echinotheridion_otlum/1-115   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
126165807|Spartaeus_platnicki/1-115   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
149286297|Sabella_spallanzanii/1-115   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
149286301|Sabellastarte_sp./1-115   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
188037180|Dicranosepsis_unipilos/1-115   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
239736593|Ameletoides_sp./1-115   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
270303960|Atergatis_laevigatus/1-115   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
270303962|Benthochascon_hemingi/1-115   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
consensus                                                          KQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283857503|Nesothamnus_sanguineus/1-116   VTI.............................   116
300248327|Ocoaxo_ornatipennis/1-116   VTI.............................   116
300248339|Polychaetophyes_serpul/1-116   VTI.............................   116
300248345|Pectinariophyes_stalii/1-116   VTI.............................   116
300248347|Catrimania_insignis/1-116   VTI.............................   116
300248397|Jeanneliensia_sublimpi/1-116   VTI.............................   116
300248405|Enderleinia_bispina/1-116   VTI.............................   116
300248415|Epicranion_sp./1-116   VTI.............................   116
300248455|Clovia_sp./1-116   VTI.............................   116
109134776|Makota_sp./1-115   VT..............................   115
109134784|Bladina_sp./1-115   VT..............................   115
109134788|Euricania_sp./1-115   VT..............................   115
119689996|Echinotheridion_otlum/1-115   VT..............................   115
126165807|Spartaeus_platnicki/1-115   VT..............................   115
149286297|Sabella_spallanzanii/1-115   VT..............................   115
149286301|Sabellastarte_sp./1-115   VT..............................   115
188037180|Dicranosepsis_unipilos/1-115   VT..............................   115
239736593|Ameletoides_sp./1-115   VT..............................   115
270303960|Atergatis_laevigatus/1-115   VT..............................   115
270303962|Benthochascon_hemingi/1-115   VT..............................   115
consensus                                VT
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
270303964|Calocarcinus_crosnieri/1-115   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
270303967|Domecia_acanthophora/1-115   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
270303969|Hypothalassia_armata/1-115   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
270303971|Pilumnus_vespertilio/1-115   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
270303973|Philippicarcinus_ovifo/1-115 ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
270303975|Quadrella_coronata/1-115    ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
270303977|Quadrella_maculosa/1-115    ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
270303979|Quadrella_serenei/1-115     ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
270303981|Tanaocheles_bidentata/1-115 ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
270303983|Tetralia_nigrolineata/1-115 ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
270303985|Trapezia_cymodoce/1-115     ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
257783551|Asolene_pulchella/1-116     ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
257783565|Pomacea_lineata/1-116       ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
257783567|Pomacea_dolioides/1-116     ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
257783579|Pomacea_canaliculata/1-116 ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
257783589|Pomacea_scalaris/1-116     ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
270303987|Trapezia_guttata/1-115      ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
270303989|Trapezia_tigrina/1-115      ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
300248331|Iphirhina_perfecta/1-115   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
300248421|Mahanarva_tristis/1-115    ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
consensus                                                      *QTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

270303964|Calocarcinus_crosnieri/1-115   VT..............................   115
270303967|Domecia_acanthophora/1-115     VT..............................   115
270303969|Hypothalassia_armata/1-115     VT..............................   115
270303971|Pilumnus_vespertilio/1-115     VT..............................   115
270303973|Philippicarcinus_ovifo/1-115   VT..............................   115
270303975|Quadrella_coronata/1-115       VT..............................   115
270303977|Quadrella_maculosa/1-115       VT..............................   115
270303979|Quadrella_serenei/1-115        VT..............................   115
270303981|Tanaocheles_bidentata/1-115    VT..............................   115
270303983|Tetralia_nigrolineata/1-115    VT..............................   115
270303985|Trapezia_cymodoce/1-115        VT..............................   115
257783551|Asolene_pulchella/1-116        VTII............................   116
257783565|Pomacea_lineata/1-116          VTII............................   116
257783567|Pomacea_dolioides/1-116        VTII............................   116
257783579|Pomacea_canaliculata/1-116     VTII............................   116
257783589|Pomacea_scalaris/1-116         VTII............................   116
270303987|Trapezia_guttata/1-115         VT..............................   115
270303989|Trapezia_tigrina/1-115         VT..............................   115
300248331|Iphirhina_perfecta/1-115       VT..............................   115
300248421|Mahanarva_tristis/1-115        VT..............................   115
consensus                                VT
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300248443|Baetkia_maroniensis/1-115   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
68509567|Labidiosticta_vallisi/1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
27923463|Aretaon_asperrimus/1-117   ..................GTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   115
27923485|Carausius_morosus/1-117   ..................GTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   115
27923493|Medaura_sp./1-117   ..................GTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   115
109134682|Acanalonia_bivitatta/1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
109134688|Amblycratus_sp./1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
109134706|Omalicna_sp./1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
109134708|Derbe_sp./1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
109134716|Hyalodictyon_sp./1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
109134736|Pseudoflatoides_sp./1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
109134740|Massila_sp./1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
109134746|Rentinus_dilatatus/1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
109134748|Penthicodes_pulchella/1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
109134750|Scaralis_semilimpida/1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
109134762|Fitchiella_rufipes/1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
109134768|Quilessa_maculata/1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
109134772|Onycta_sp./1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
109134780|Biolleyana_costalis/1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
109134786|Pochazia_guttifera/1-114   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
consensus                                                      QTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300248443|Baetkia_maroniensis/1-115   VT.............................   115
68509567|Labidiosticta_vallisi/1-114   VT.............................   114
27923463|Aretaon_asperrimus/1-117   VT.............................   117
27923485|Carausius_morosus/1-117   VT.............................   117
27923493|Medaura_sp./1-117   VT.............................   117
109134682|Acanalonia_bivitatta/1-114   VT.............................   114
109134688|Amblycratus_sp./1-114   VT.............................   114
109134706|Omalicna_sp./1-114   VT.............................   114
109134708|Derbe_sp./1-114   VT.............................   114
109134716|Hyalodictyon_sp./1-114   VT.............................   114
109134736|Pseudoflatoides_sp./1-114   VT.............................   114
109134740|Massila_sp./1-114   VT.............................   114
109134746|Rentinus_dilatatus/1-114   VT.............................   114
109134748|Penthicodes_pulchella/1-114   VT.............................   114
109134750|Scaralis_semilimpida/1-114   VT.............................   114
109134762|Fitchiella_rufipes/1-114   VT.............................   114
109134768|Quilessa_maculata/1-114   VT.............................   114
109134772|Onycta_sp./1-114   VT.............................   114
109134780|Biolleyana_costalis/1-114   VT.............................   114
109134786|Pochazia_guttifera/1-114   VT.............................   114
consensus                            VT
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
109134800|Hilda_sp./1-114                  .....GTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
109134804|Tangiopsis_sp./1-114                  .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
109134806|Chasmocephalus_pluvial/1-114        .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
109134808|Neotangia_caribea/1-114             .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
126165803|Portia_sp./1-114                    .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
126165805|Rhene_sp./1-114                     .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
188037198|Saltella_nigripes/1-114              .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
196175121|Tropidocephala_sp./1-114            .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
196175123|Dictyophara_sp./1-114               .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
27923457|Extatosoma_tiaratum/1-123            .................GTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  115
27923497|Haaniella_dehaanii/1-123             ................GTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  115
297040902|Callobius_nomeus/1-123              ...............LGTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  116
196175133|Alphina_glauca/1-114                .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
196175141|Calyptoproctus_sp./1-114             .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
196175157|Scaralis_sp./1-114                  .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
196175177|Paralystra_florenciana/1-114         .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
196175183|Saiva_nodata/1-114                   .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
196175191|Weyrauchia_peruviana/1-114           .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
196175195|Phrictus_regalis/1-114               .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
196175199|Fulgora_laternaria/1-114             .....QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
consensus                                      QTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo
109134800|Hilda_sp./1-114                  VT.............................  114
109134804|Tangiopsis_sp./1-114             VT.............................  114
109134806|Chasmocephalus_pluvial/1-114     VT.............................  114
109134808|Neotangia_caribea/1-114          VT.............................  114
126165803|Portia_sp./1-114                 VT.............................  114
126165805|Rhene_sp./1-114                  VT.............................  114
188037198|Saltella_nigripes/1-114          VT.............................  114
196175121|Tropidocephala_sp./1-114         VT.............................  114
196175123|Dictyophara_sp./1-114            VT.............................  114
27923457|Extatosoma_tiaratum/1-123         VTIMPKDI.......................  123
27923497|Haaniella_dehaanii/1-123          VTIMPKDI.......................  123
297040902|Callobius_nomeus/1-123           VTIMPKD........................  123
196175133|Alphina_glauca/1-114             VT.............................  114
196175141|Calyptoproctus_sp./1-114         VT.............................  114
196175157|Scaralis_sp./1-114               VT.............................  114
196175177|Paralystra_florenciana/1-114     VT.............................  114
196175183|Saiva_nodata/1-114               VT.............................  114
196175191|Weyrauchia_peruviana/1-114       VT.............................  114
196175195|Phrictus_regalis/1-114           VT.............................  114
196175199|Fulgora_laternaria/1-114         VT.............................  114
consensus                                  VT
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
296784605|Panoplax_depressa/1-115          .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784607|Garthiope_spinipes/1-115          .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784613|Speocarcinus_monotuber/1-115      .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784615|Rhithropanopeus_harris/1-115     .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784617|Neopanope_packardii/1-115         .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784619|Trapezioplax_tridentat/1-115     .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784623|Xanthias_canaliculatus/1-115     .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784625|Micropanope_nuttingi/1-115        .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784627|Micropanope_lobifrons/1-115       .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784629|Eucratodes_agassizii/1-115        .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784631|Malacoplax_californien/1-115      .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
220980663|Macrobrachium_equidens/1-114      .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
269969455|Daldorfia_horrida/1-114           .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784557|Etisus_sp./1-114                  .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784559|Galene_bispinosa/1-114             .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
296784561|Xanthodius_cooksoni/1-114          .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
300248319|Sphenorhina_distinguen/1-114      .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
300248323|Aeneolamia_varia/1-114            .....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
109134684|Acanalonia_vivada/1-113            ......................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
109134694|Bothriocera_eborea/1-113           ......................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
consensus                                   QTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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296784605|Panoplax_depressa/1-115          VTI.............................     115
296784607|Garthiope_spinipes/1-115          VTI.............................     115
296784613|Speocarcinus_monotuber/1-115      VTI.............................     115
296784615|Rhithropanopeus_harris/1-115     VTI.............................     115
296784617|Neopanope_packardii/1-115         VTI.............................     115
296784619|Trapezioplax_tridentat/1-115     VTI.............................     115
296784623|Xanthias_canaliculatus/1-115     VTI.............................     115
296784625|Micropanope_nuttingi/1-115        VTI.............................     115
296784627|Micropanope_lobifrons/1-115       VTI.............................     115
296784629|Eucratodes_agassizii/1-115        VTI.............................     115
296784631|Malacoplax_californien/1-115      VTI.............................     115
220980663|Macrobrachium_equidens/1-114      VT..............................     114
269969455|Daldorfia_horrida/1-114           VT..............................     114
296784557|Etisus_sp./1-114                  VT..............................     114
296784559|Galene_bispinosa/1-114            VT..............................     114
296784561|Xanthodius_cooksoni/1-114         VT..............................     114
300248319|Sphenorhina_distinguen/1-114      VT..............................     114
300248323|Aeneolamia_varia/1-114            VT..............................     114
109134684|Acanalonia_vivada/1-113           VT..............................     113
109134694|Bothriocera_eborea/1-113          VT..............................     113
consensus                                   VT*
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
109134718|Dictyophara_sp./1-113          .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
109134722|Platybrachys_sp./1-113          .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
109134790|Privesa_sp./1-113              .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
126165767|Cheiracanthium_sp./1-113       .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
126165777|Ligurra_latidens/1-113          .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
170053440|Culex_quinquefasciatus/1-146  .....MRPLRVFDIAMARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  127
188037220|Sepsis_punctum/1-119           ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  116
126165813|Thiania_bhamoensis/1-113       .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
150247763|Orthodera_novaezealand/1-113   .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
188037160|Australosepsis_frontal/1-113  .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
188037164|Dicranosepsis_cf./1-113         .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
188037196|Saltella_bezzii/1-113           .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
196175155|Birdantis_bloetei/1-113         .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
196175169|Stalubra_brunnea/1-113          .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
196175171|Echetra_modesta/1-113           .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
196175175|Scaralis_sp./1-113              .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
196175181|Artacie_dufourii/1-113          .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
196175187|Dilobura_conspurcata/1-113      .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
196175197|Fulgora_cearensis/1-113         .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
196175203|Eurinopsyche_obscurata/1-113   .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
consensus                                 TARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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109134718|Dictyophara_sp./1-113          VT..............................  113
109134722|Platybrachys_sp./1-113          VT..............................  113
109134790|Privesa_sp./1-113              VT..............................  113
126165767|Cheiracanthium_sp./1-113       VT..............................  113
126165777|Ligurra_latidens/1-113          VT..............................  113
170053440|Culex_quinquefasciatus/1-146  VTIMPKDIQLARRIRGERA.............  146
188037220|Sepsis_punctum/1-119           VTI.............................  119
126165813|Thiania_bhamoensis/1-113       VT..............................  113
150247763|Orthodera_novaezealand/1-113   VT..............................  113
188037160|Australosepsis_frontal/1-113   VT..............................  113
188037164|Dicranosepsis_cf./1-113        VT..............................  113
188037196|Saltella_bezzii/1-113          VT..............................  113
196175155|Birdantis_bloetei/1-113        VT..............................  113
196175169|Stalubra_brunnea/1-113         VT..............................  113
196175171|Echetra_modesta/1-113          VT..............................  113
196175175|Scaralis_sp./1-113             VT..............................  113
196175181|Artacie_dufourii/1-113         VT..............................  113
196175187|Dilobura_conspurcata/1-113     VT..............................  113
196175197|Fulgora_cearensis/1-113        VT..............................  113
196175203|Eurinopsyche_obscurata/1-113   VT..............................  113
consensus                                VT
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
196175205|Zanna_sp./1-113                  .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
238817439|Dannella_provonshai/1-113          .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
27923453|Orxines_macklottii/1-118            .....ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     116
27923515|Dimorphodes_prostasis/1-118         .....ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     116
149286311|Crucigera_zygophora/1-118          .....ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     116
300248325|Sphenorhina_latifascia/1-113       .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
300248329|Cephisus_siccifolius/1-113         .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
300248349|Prosapia_plagiata/1-113            .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
300248351|Clastoptera_sp./1-113              .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
300392940|Phlesirtes_merumontanu/1-113       .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
300392944|Conocephalus_kilimandj/1-113       .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
300392946|Conocephalini_gen/1-113            .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
300392948|Conocephalini_gen/1-113            .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
300392950|Conocephalini_gen/1-113            .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
300392952|Conocephalus_kibonoten/1-113       .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
300392954|Platycleis_albopunctat/1-113       .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
300392956|Conocephalus_conocepha/1-113       .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
300392958|Conocephalus_ictus/1-113           .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
300392960|Conocephalini_gen/1-113            .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
256251568|Angiostrongylus_canton/1-143       .......FISNRLCMARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     124
consensus                                                          TARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

196175205|Zanna_sp./1-113                  VT.............................     113
238817439|Dannella_provonshai/1-113         VT.............................     113
27923453|Orxines_macklottii/1-118           VT.............................     118
27923515|Dimorphodes_prostasis/1-118        VT.............................     118
149286311|Crucigera_zygophora/1-118         VT.............................     118
300248325|Sphenorhina_latifascia/1-113      VT.............................     113
300248329|Cephisus_siccifolius/1-113        VT.............................     113
300248349|Prosapia_plagiata/1-113           VT.............................     113
300248351|Clastoptera_sp./1-113             VT.............................     113
300392940|Phlesirtes_merumontanu/1-113      VT.............................     113
300392944|Conocephalus_kilimandj/1-113      VT.............................     113
300392946|Conocephalini_gen/1-113           VT.............................     113
300392948|Conocephalini_gen/1-113           VT.............................     113
300392950|Conocephalini_gen/1-113           VT.............................     113
300392952|Conocephalus_kibonoten/1-113      VT.............................     113
300392954|Platycleis_albopunctat/1-113      VT.............................     113
300392956|Conocephalus_conocepha/1-113      VT.............................     113
300392958|Conocephalus_ictus/1-113          VT.............................     113
300392960|Conocephalini_gen/1-113           VT.............................     113
256251568|Angiostrongylus_canton/1-143      VTIMPKDIQLARRIRGERA............     143
consensus                                   VT
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300392962|Conocephalus_maculatus/1-113   ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
300393089|Conocephalus_longiceps/1-113   ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
300393093|Ruspolia_differens/1-113       ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
300393095|Conocephalus_saltator/1-113    ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
300393097|Karniella_sp./1-113            ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
300393101|Karniella_bullata/1-113         ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
300393191|Conocephalini_gen/1-113         ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
300393362|Conocephalini_gen/1-113         ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
300393373|Conocephalini_gen/1-113         ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
300393377|Conocephalini_gen/1-113         ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
300393381|Conocephalini_gen/1-113         ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
27923479|Gratidia_hispidula/1-112         ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
109134692|Bebaiotes_sp./1-112             ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
109134698|Nothodelphax_gillettei/1-112    ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
109134702|Cedusa_obscura/1-112            ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
109134766|Oeclidius_sp./1-112             ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
109134778|Nisia_sp./1-112                ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
109134796|Euphyonarthex_phyllost/1-112    ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
109134802|Tangia_viridis/1-112            ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
109134744|Amerzanna_peruana/1-114         ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
consensus                                *ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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300392962|Conocephalus_maculatus/1-113   VT.............................   113
300393089|Conocephalus_longiceps/1-113   VT.............................   113
300393093|Ruspolia_differens/1-113       VT.............................   113
300393095|Conocephalus_saltator/1-113    VT.............................   113
300393097|Karniella_sp./1-113            VT.............................   113
300393101|Karniella_bullata/1-113        VT.............................   113
300393191|Conocephalini_gen/1-113        VT.............................   113
300393362|Conocephalini_gen/1-113        VT.............................   113
300393373|Conocephalini_gen/1-113        VT.............................   113
300393377|Conocephalini_gen/1-113        VT.............................   113
300393381|Conocephalini_gen/1-113        VT.............................   113
27923479|Gratidia_hispidula/1-112        VT.............................   112
109134692|Bebaiotes_sp./1-112            VT.............................   112
109134698|Nothodelphax_gillettei/1-112   VT.............................   112
109134702|Cedusa_obscura/1-112           VT.............................   112
109134766|Oeclidius_sp./1-112            VT.............................   112
109134778|Nisia_sp./1-112                VT.............................   112
109134796|Euphyonarthex_phyllost/1-112   VT.............................   112
109134802|Tangia_viridis/1-112           VT.............................   112
109134744|Amerzanna_peruana/1-114        VTI............................   114
consensus                                VT
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
126165783|Misumenops_nepenthicol/1-114   ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
196175163|Scaralis_sp./1-114             ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
296784543|Nanoplax_xanthiformis/1-114    ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
296784567|Pilodius_areolatus/1-114      ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
296784581|Lophoxanthus_lamellipe/1-114   ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
296784585|Pseudorhombila_quadrid/1-114   ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
296784597|Etisus_maculatus/1-114         ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
296784601|Micropanope_sculptipes/1-114   ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
296784621|Cyrtoplax_nr./1-114            ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
119689979|Anelosimus_kohi/1-112           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
188037190|Parapalaeosepsis_plebe/1-112   .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
196175193|Learcha_sponsa/1-112            .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
238817455|Ephemerella_berneri/1-112      .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
150247879|Metallyticus_fallax/1-125      ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247891|Sibylla_pretiosa/1-125          ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247899|Mantoida_sp./1-125             ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247903|Nothogalepsus_planiver/1-125   ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247905|Dystacta_alticeps/1-125         ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247907|Idolomantis_diabolica/1-125    ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
150247917|Oxyophthalma_sp./1-125          ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
consensus                                                          TARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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126165783|Misumenops_nepenthicol/1-114   VTI.............................   114
196175163|Scaralis_sp./1-114             VTI.............................   114
296784543|Nanoplax_xanthiformis/1-114    VTI.............................   114
296784567|Pilodius_areolatus/1-114       VTI.............................   114
296784581|Lophoxanthus_lamellipe/1-114   VTI.............................   114
296784585|Pseudorhombila_quadrid/1-114   VTI.............................   114
296784597|Etisus_maculatus/1-114         VTI.............................   114
296784601|Micropanope_sculptipes/1-114   VTI.............................   114
296784621|Cyrtoplax_nr./1-114            VTI.............................   114
119689979|Anelosimus_kohi/1-112          VT..............................   112
188037190|Parapalaeosepsis_plebe/1-112   VT..............................   112
196175193|Learcha_sponsa/1-112           VT..............................   112
238817455|Ephemerella_berneri/1-112      VT..............................   112
150247879|Metallyticus_fallax/1-125      VTIMPKDI........................   125
150247891|Sibylla_pretiosa/1-125         VTIMPKDI........................   125
150247899|Mantoida_sp./1-125             VTIMPKDI........................   125
150247903|Nothogalepsus_planiver/1-125   VTIMPKDI........................   125
150247905|Dystacta_alticeps/1-125        VTIMPKDI........................   125
150247907|Idolomantis_diabolica/1-125    VTIMPKDI........................   125
150247917|Oxyophthalma_sp./1-125         VTIMPKDI........................   125
consensus                                VTI
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
150247919|Ceratomantis_sp./1-125          ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
150247921|Oxypilus_nasutus/1-125            ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
150247927|Gimantis_assamica/1-125            ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
150247931|Ligariella_sp./1-125              ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
150247933|Ligaria_sp./1-125                ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
150247935|Hagiomantis_superba/1-125          ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
150247937|Bantia_sp./1-125                  ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
150247949|Sibylla_operosa/1-125              ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
150247951|Panurgica_fratercula/1-125          ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
150247971|Caudatoscelis_marmorat/1-125       ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
150247975|Dactylopteryx_flexuosa/1-125       ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
150247991|Ligariella_gracilis/1-125          ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
150247995|Deiphobe_sp./1-125                ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
150247997|Galinthias_amoena/1-125            ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
150248003|Sphodropoda_sp./1-125              ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
150248005|Danuria_thunbergi/1-125            ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
238817463|Kangella_brocha/1-112              ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
239736581|Ephemera_simulans/1-112            ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
260850277|Carcinoplax_suruguensi/1-112       ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
260850287|Microprosthema_inornat/1-112       ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
consensus                                                              MARTKDTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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150247919|Ceratomantis_sp./1-125          VTIMPKDI.........................    125
150247921|Oxypilus_nasutus/1-125            VTIMPKDI.........................    125
150247927|Gimantis_assamica/1-125           VTIMPKDI.........................    125
150247931|Ligariella_sp./1-125              VTIMPKDI.........................    125
150247933|Ligaria_sp./1-125                 VTIMPKDI.........................    125
150247935|Hagiomantis_superba/1-125         VTIMPKDI.........................    125
150247937|Bantia_sp./1-125                  VTIMPKDI.........................    125
150247949|Sibylla_operosa/1-125             VTIMPKDI.........................    125
150247951|Panurgica_fratercula/1-125        VTIMPKDI.........................    125
150247971|Caudatoscelis_marmorat/1-125      VTIMPKDI.........................    125
150247975|Dactylopteryx_flexuosa/1-125      VTIMPKDI.........................    125
150247991|Ligariella_gracilis/1-125         VTIMPKDI.........................    125
150247995|Deiphobe_sp./1-125                VTIMPKDI.........................    125
150247997|Galinthias_amoena/1-125           VTIMPKDI.........................    125
150248003|Sphodropoda_sp./1-125             VTIMPKDI.........................    125
150248005|Danuria_thunbergi/1-125           VTIMPKDI.........................    125
238817463|Kangella_brocha/1-112             VT...............................    112
239736581|Ephemera_simulans/1-112           VT...............................    112
260850277|Carcinoplax_suruguensi/1-112      VT...............................    112
260850287|Microprosthema_inornat/1-112      VT...............................    112
consensus                                   VTIMPKDI
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
260850289|Farfantepenaeus_duorar/1-112   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
300248353|Clastoptera_laenata/1-112   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
300248367|Isozulia_astralis/1-112   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
300248369|Homalogrypota_coccinea/1-112   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
300248373|Clovia_sp./1-112   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
300248375|Philaenarcys_bilineata/1-112   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
109134690|Spino_sp./1-113   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
196175135|Amycle_vernalis/1-113   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
260850285|Stenopus_hispidus/1-113   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
296784575|Cataleptodius_floridan/1-113   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
296784577|Carpilius_maculatus/1-113   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
300248379|Sphenorhina_rubra/1-112   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
300248381|Aufidus_sp./1-112   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
300248383|Cosmoscarta_bispecular/1-112   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
300248387|Leptataspis_fuscipenni/1-112   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
68509487|Meridialaris_diguillina/1-119   ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
68509495|Siphlonurus_sp./1-118   ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
238817447|Drunella_ishiyamana/1-117   ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
300248439|Baetkia_compressa/1-116   ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
300248457|Poophilus_costalis/1-116   ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
consensus                                                  ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

260850289|Farfantepenaeus_duorar/1-112   VT.............................   112
300248353|Clastoptera_laenata/1-112   VT.............................   112
300248367|Isozulia_astralis/1-112   VT.............................   112
300248369|Homalogrypota_coccinea/1-112   VT.............................   112
300248373|Clovia_sp./1-112   VT.............................   112
300248375|Philaenarcys_bilineata/1-112   VT.............................   112
109134690|Spino_sp./1-113   VTI............................   113
196175135|Amycle_vernalis/1-113   VTI............................   113
260850285|Stenopus_hispidus/1-113   VTI............................   113
296784575|Cataleptodius_floridan/1-113   VTI............................   113
296784577|Carpilius_maculatus/1-113   VTI............................   113
300248379|Sphenorhina_rubra/1-112   VT.............................   112
300248381|Aufidus_sp./1-112   VT.............................   112
300248383|Cosmoscarta_bispecular/1-112   VT.............................   112
300248387|Leptataspis_fuscipenni/1-112   VT.............................   112
68509487|Meridialaris_diguillina/1-119   VTIMPKDI......................   119
68509495|Siphlonurus_sp./1-118   VTIMPKD.......................   118
238817447|Drunella_ishiyamana/1-117   VTIMPK........................   117
300248439|Baetkia_compressa/1-116   VTIMP.........................   116
300248457|Poophilus_costalis/1-116   VTIMP.........................   116
consensus                                  VT*
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300248389|Aracamunia_dimorpha/1-112      .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
300248411|Ocoaxo_tucurricae/1-112        .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
300792651|Iphitime_hartmanae/1-112       .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
300792653|Ophryotrocha_alborana/1-112    .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
300792655|Ophryotrocha_craigsmit/1-112   .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
34013708|Machilis_sp./1-115              .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
34013710|Machilis_sp./1-115              .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
34013712|Hypogastrura_sp./1-115           .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
34013714|Notoligotoma_sp./1-115           .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
150247939|Chaeteessa_sp./1-125            ...............XARTKXTARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
34013716|Drunella_coloradensis/1-115     .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
34013718|Baetis_sp./1-115                .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
34013720|Analetris_eximia/1-115           .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
34013722|Metretopus_borealis/1-115        .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
34013724|Ametropus_neavei/1-115           .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
34013726|Lachlania_saskatchewane/1-115   .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
34013730|Coloburiscus_humeralis/1-115    .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
34013732|Baetisca_sp./1-115               .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
34013734|Isonychia_sp./1-115              .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
34013736|Heptagenia_sp./1-115            .....................ARKS..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
consensus                                                            ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

300248389|Aracamunia_dimorpha/1-112      VT.............................     112
300248411|Ocoaxo_tucurricae/1-112        VT.............................     112
300792651|Iphitime_hartmanae/1-112       VT.............................     112
300792653|Ophryotrocha_alborana/1-112    VT.............................     112
300792655|Ophryotrocha_craigsmit/1-112   VT.............................     112
34013708|Machilis_sp./1-115              VTIMP..........................     115
34013710|Machilis_sp./1-115              VTIMP..........................     115
34013712|Hypogastrura_sp./1-115          VTIMP..........................     115
34013714|Notoligotoma_sp./1-115          VTIMP..........................     115
150247939|Chaeteessa_sp./1-125           VTIMPKDI.......................     125
34013716|Drunella_coloradensis/1-115     VTIMP..........................     115
34013718|Baetis_sp./1-115                VTIMP..........................     115
34013720|Analetris_eximia/1-115          VTIMP..........................     115
34013722|Metretopus_borealis/1-115       VTIMP..........................     115
34013724|Ametropus_neavei/1-115          VTIMP..........................     115
34013726|Lachlania_saskatchewane/1-115   VTIMP..........................     115
34013730|Coloburiscus_humeralis/1-115    VTIMP..........................     115
34013732|Baetisca_sp./1-115              VTIMP..........................     115
34013734|Isonychia_sp./1-115             VTIMP..........................     115
34013736|Heptagenia_sp./1-115            VTIMP..........................     115
consensus                                VT***
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
34013742|Ameletus_sp./1-115                  .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
34013744|Parameletus_columbiae/1-115           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
34013746|Leptohyphes_apache/1-115              .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
34013750|Calopteryx_aequabilis/1-115           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
34013752|Libellula_saturata/1-115               .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
34013754|Hetaerina_americana/1-115              .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
34013756|Anax_junius/1-115                     .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
34013758|Paratettix_cucullatus/1-115            .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
34013760|Ellipes_minuta/1-115                  .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
34013762|Malenka_californica/1-115              .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
68509503|Adenophlebia_peringueye/1-118          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
238817469|Teloganopsis_media/1-116              .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
238817473|Uracanthella_punctiset/1-116          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
34013764|Cerconychia_sp./1-115                  .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
34013766|Thermobia_sp./1-115                   .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
34013768|Battigrassiella_sp./1-115              .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
196175127|Cyrpoptus_suavis/1-115                .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
300792669|Palpiphitime_lobifera/1-115           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
194398809|Tubiluchus_sp./1-114                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
257783585|Pomacea_haustrum/1-112                .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    108
consensus                                        ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
34013742|Ameletus_sp./1-115                  VTIMP.........................    115
34013744|Parameletus_columbiae/1-115           VTIMP.........................    115
34013746|Leptohyphes_apache/1-115              VTIMP.........................    115
34013750|Calopteryx_aequabilis/1-115           VTIMP.........................    115
34013752|Libellula_saturata/1-115               VTIMP.........................    115
34013754|Hetaerina_americana/1-115              VTIMP.........................    115
34013756|Anax_junius/1-115                     VTIMP.........................    115
34013758|Paratettix_cucullatus/1-115            VTIMP.........................    115
34013760|Ellipes_minuta/1-115                  VTIMP.........................    115
34013762|Malenka_californica/1-115              VTIMP.........................    115
68509503|Adenophlebia_peringueye/1-118          VTIMPKDI......................    118
238817469|Teloganopsis_media/1-116              VTIMPK........................    116
238817473|Uracanthella_punctiset/1-116          VTIMPK........................    116
34013764|Cerconychia_sp./1-115                  VTIMP.........................    115
34013766|Thermobia_sp./1-115                   VTIMP.........................    115
34013768|Battigrassiella_sp./1-115              VTIMP.........................    115
196175127|Cyrpoptus_suavis/1-115                VTIMP.........................    115
300792669|Palpiphitime_lobifera/1-115           VTIMP.........................    115
194398809|Tubiluchus_sp./1-114                  VTIMP.........................    114
257783585|Pomacea_haustrum/1-112                VTIM..........................    112
consensus                                        VTIMP
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158324247|Erythrodiplax_minuscul/1-108   .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324251|Neurobasis_ianthinipen/1-108   .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324253|Rhionaeschna_multicolo/1-108   .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324257|Agriocnemis_pygmaea/1-108     .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324261|Micromidia_convergens/1-108   .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324263|Rhadinosticta_simplex/1-108   .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324265|Armagomphus_armiger/1-108     .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
194398799|Centroderes_sp./1-116         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
194398803|Echinoderes_spinifurca/1-116  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
194398811|Nanaloricus_sp./1-116         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
194398805|Pycnophyes_beaufortens/1-115  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
61677509|Haliotis_kamtschatkana/1-114   .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
300792649|Dorvillea_rubrovittata/1-114  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324267|Nososticta_solida/1-108       .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324269|Petalura_gigantea/1-108       .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324271|Procordulia_jacksonien/1-108  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324273|Austrolestes_annulosus/1-108  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
7415982|Drosophila_erecta/1-136         ...............MARTKQTTRK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
158324275|Pseudagrion_aureofrons/1-108  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324277|Hesperocordulia_bertho/1-108  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
consensus                                                      K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

158324247|Erythrodiplax_minuscul/1-108   ..............................   108
158324251|Neurobasis_ianthinipen/1-108   ..............................   108
158324253|Rhionaeschna_multicolo/1-108   ..............................   108
158324257|Agriocnemis_pygmaea/1-108     ..............................   108
158324261|Micromidia_convergens/1-108   ..............................   108
158324263|Rhadinosticta_simplex/1-108   ..............................   108
158324265|Armagomphus_armiger/1-108     ..............................   108
194398799|Centroderes_sp./1-116         VTIMPKD.......................   116
194398803|Echinoderes_spinifurca/1-116  VTIMPKD.......................   116
194398811|Nanaloricus_sp./1-116         VTIMPKD.......................   116
194398805|Pycnophyes_beaufortens/1-115  VTIMPK........................   115
61677509|Haliotis_kamtschatkana/1-114   VTIMPK........................   114
300792649|Dorvillea_rubrovittata/1-114  VTIMPK........................   114
158324267|Nososticta_solida/1-108       ..............................   108
158324269|Petalura_gigantea/1-108       ..............................   108
158324271|Procordulia_jacksonien/1-108  ..............................   108
158324273|Austrolestes_annulosus/1-108  ..............................   108
7415982|Drosophila_erecta/1-136         VTIMPKDIQLARRIRGERA...........   136
158324275|Pseudagrion_aureofrons/1-108  ..............................   108
158324277|Hesperocordulia_bertho/1-108  ..............................   108
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                   4 K STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                       3                                                                                                                                 3
                                                       2                                                                                                                                 2
                                                       1                                                                                                                                 1
158324279|Ictinogomphus_australi/1-108                 ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324283|Austrogynacantha_heter/1-108                 ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324285|Antipodogomphus_acolyt/1-108                 ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324287|Eusynthemis_nigra/1-108                      ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324289|Choristhemis_flavoterm/1-108                 ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324291|Synlestes_weyersii/1-108                     ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324293|Brachydiplax_denticaud/1-108                 ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324295|Hemicordulia_australia/1-108                 ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324297|Austrogomphus_amphicli/1-108                 ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324299|Tanypteryx_hageni/1-108                      ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324301|Tramea_lacerata/1-108                        ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324303|Telebasis_salva/1-108                        ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324305|Progomphus_borealis/1-108                    ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324307|Amphiagrion_abbreviatu/1-108                 ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324313|Euphaea_formosa/1-108                        ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324315|Bayadera_brevicauda/1-108                    ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324317|Cordulegaster_dorsalis/1-108                 ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324323|Neoneura_maria/1-108                         ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324325|Hypolestes_sp./1-108                         ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
158324327|Protoneura_capillaris/1-108                  ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   108
consensus                                              K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                   4 4
                                                       3 3
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                                                       1 1
158324279|Ictinogomphus_australi/1-108                 ..............................   108
158324283|Austrogynacantha_heter/1-108                 ..............................   108
158324285|Antipodogomphus_acolyt/1-108                 ..............................   108
158324287|Eusynthemis_nigra/1-108                      ..............................   108
158324289|Choristhemis_flavoterm/1-108                 ..............................   108
158324291|Synlestes_weyersii/1-108                     ..............................   108
158324293|Brachydiplax_denticaud/1-108                 ..............................   108
158324295|Hemicordulia_australia/1-108                 ..............................   108
158324297|Austrogomphus_amphicli/1-108                 ..............................   108
158324299|Tanypteryx_hageni/1-108                      ..............................   108
158324301|Tramea_lacerata/1-108                        ..............................   108
158324303|Telebasis_salva/1-108                        ..............................   108
158324305|Progomphus_borealis/1-108                    ..............................   108
158324307|Amphiagrion_abbreviatu/1-108                 ..............................   108
158324313|Euphaea_formosa/1-108                        ..............................   108
158324315|Bayadera_brevicauda/1-108                    ..............................   108
158324317|Cordulegaster_dorsalis/1-108                 ..............................   108
158324323|Neoneura_maria/1-108                         ..............................   108
158324325|Hypolestes_sp./1-108                         ..............................   108
158324327|Protoneura_capillaris/1-108                  ..............................   108
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158324329|Archilestes_grandis/1-108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158324331|Chlorogomphus_brunneus/1-108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158324333|Cyclogomphus_heterosty/1-108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158324335|Davidioides_martini/1-108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158324337|Idionyx_imbricata/1-108                                                                                                                                                                                                                                                                                                                                
158324339|Heliocypha_biseriata/1-108                                                                                                                                                                                                                                                                                                                                
27923513|Phobaeticus_heusii/1-111                                                                                                                                                                                                                                                                                                                                
109134792|Scolypopa_sp./1-111                                                                                                                                                                                                                                                                                                                                
184041481|Phyllodoce_groenlandic/1-111                                                                                                                                                                                                                                                                                                                                
184041487|Paranaitis_wahlbergi/1-111                                                                                                                                                                                                                                                                                                                                
184041495|Paranaitis_sp./1-111                                                                                                                                                                                                                                                                                                                                
150247839|Acontista_sp./1-125                                                                                                                                                                                                                                                                                                                                
300792657|Ophryotrocha_eutrophil/1-112                                                                                                                                                                                                                                                                                                                                
300792659|Ophryotrocha_geryonico/1-112                                                                                                                                                                                                                                                                                                                                
300792661|Ophryotrocha_globopalp/1-112                                                                                                                                                                                                                                                                                                                                
300792663|Ophryotrocha_gracilis/1-112                                                                                                                                                                                                                                                                                                                                
300792665|Ophryotrocha_japonica/1-112                                                                                                                                                                                                                                                                                                                                
300792667|Ophryotrocha_labronica/1-112                                                                                                                                                                                                                                                                                                                                
300792671|Ophryotrocha_longident/1-112                                                                                                                                                                                                                                                                                                                                
300792673|Ophryotrocha_permanni/1-112                                                                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158324329|Archilestes_grandis/1-108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158324331|Chlorogomphus_brunneus/1-108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158324333|Cyclogomphus_heterosty/1-108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158324335|Davidioides_martini/1-108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158324337|Idionyx_imbricata/1-108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158324339|Heliocypha_biseriata/1-108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
27923513|Phobaeticus_heusii/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
109134792|Scolypopa_sp./1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
184041481|Phyllodoce_groenlandic/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
184041487|Paranaitis_wahlbergi/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
184041495|Paranaitis_sp./1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
150247839|Acontista_sp./1-125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300792657|Ophryotrocha_eutrophil/1-112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300792659|Ophryotrocha_geryonico/1-112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300792661|Ophryotrocha_globopalp/1-112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300792663|Ophryotrocha_gracilis/1-112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300792665|Ophryotrocha_japonica/1-112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300792667|Ophryotrocha_labronica/1-112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300792671|Ophryotrocha_longident/1-112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300792673|Ophryotrocha_permanni/1-112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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300792675|Ophryotrocha_puerilis/1-112      .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
300792677|Ophryotrocha_puerilis/1-112      .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
300792679|Ophryotrocha_rubra/1-112        .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
300792681|Ophryotrocha_scutellus/1-112    .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
300792683|Parougia_eliasoni/1-112          .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
68509563|Hesperagrion_sp./1-110            .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
71726155|Lysmata_boggessi/1-110            .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
73761834|Franklinothrips_vespifo/1-110    .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
73761836|Prionoglaris_sp./1-110           .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
73761838|Speleketor_irwini/1-110           .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
73761840|Sensitibilla_strinatii/1-110      .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
73761842|Psyllipsocus_oculatus/1-110       .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
73761846|Rhyopsocus_sp./1-110             .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
73761848|Neolepolepis_occidental/1-110    .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
73761850|Soa_sp./1-110                    .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
73761852|Echmepteryx_madagascari/1-110    .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
73761858|Pteroxanium_kelloggi/1-110       .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
73761860|Lepium_sp./1-110                 .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
73761862|Trogium_pulsatorium/1-110         .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
73761868|Musapsocus_sp./1-110              .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                     RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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300792675|Ophryotrocha_puerilis/1-112      VT.............................     112
300792677|Ophryotrocha_puerilis/1-112      VT.............................     112
300792679|Ophryotrocha_rubra/1-112         VT.............................     112
300792681|Ophryotrocha_scutellus/1-112     VT.............................     112
300792683|Parougia_eliasoni/1-112          VT.............................     112
68509563|Hesperagrion_sp./1-110            V..............................     110
71726155|Lysmata_boggessi/1-110            V..............................     110
73761834|Franklinothrips_vespifo/1-110     V..............................     110
73761836|Prionoglaris_sp./1-110            V..............................     110
73761838|Speleketor_irwini/1-110           V..............................     110
73761840|Sensitibilla_strinatii/1-110      V..............................     110
73761842|Psyllipsocus_oculatus/1-110       V..............................     110
73761846|Rhyopsocus_sp./1-110              V..............................     110
73761848|Neolepolepis_occidental/1-110     V..............................     110
73761850|Soa_sp./1-110                     V..............................     110
73761852|Echmepteryx_madagascari/1-110     V..............................     110
73761858|Pteroxanium_kelloggi/1-110        V..............................     110
73761860|Lepium_sp./1-110                  V..............................     110
73761862|Trogium_pulsatorium/1-110         V..............................     110
73761868|Musapsocus_sp./1-110              V..............................     110
consensus                                  V
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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73761870|Compsocus_elegans/1-110          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
73761874|Hemipsocus_sp./1-110              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
73761876|Bertkauia_crosbyana/1-110          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
73761878|Mesopsocus_hongkongensi/1-110      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
73761880|Heterocaecilius_fuscus/1-110       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
290918568|Procaris_mexicana/1-126           .............ILARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    118
149286327|Gunnarea_capensis/1-114           ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
73761882|Aaroniella_badonneli/1-110         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
73761884|Matsumuraiella_radiopic/1-110      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
110555263|Galianora_sacha/1-110             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
157783341|Hemipsocus_sp./1-110              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
157783343|Psilopsocus_malayanus/1-110       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
157783345|Myopsocus_sp./1-110               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
157783349|Amphigerontia_jezoensi/1-110      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
157783351|Amphigerontia_sp./1-110           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
157783353|Blaste_quieta/1-110               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
157783355|Blaste_sp./1-110                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
157783359|Blastopsocus_sp./1-110            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
109134710|Scolops_sulcipes/1-113            ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    112
109134724|Platybrachys_cf./1-114            ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
consensus                                                            RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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73761870|Compsocus_elegans/1-110          V.............................    110
73761874|Hemipsocus_sp./1-110              V.............................    110
73761876|Bertkauia_crosbyana/1-110         V.............................    110
73761878|Mesopsocus_hongkongensi/1-110     V.............................    110
73761880|Heterocaecilius_fuscus/1-110      V.............................    110
290918568|Procaris_mexicana/1-126          VTIMPKDY......................    126
149286327|Gunnarea_capensis/1-114          VTIM..........................    114
73761882|Aaroniella_badonneli/1-110        V.............................    110
73761884|Matsumuraiella_radiopic/1-110     V.............................    110
110555263|Galianora_sacha/1-110            V.............................    110
157783341|Hemipsocus_sp./1-110             V.............................    110
157783343|Psilopsocus_malayanus/1-110      V.............................    110
157783345|Myopsocus_sp./1-110              V.............................    110
157783349|Amphigerontia_jezoensi/1-110     V.............................    110
157783351|Amphigerontia_sp./1-110          V.............................    110
157783353|Blaste_quieta/1-110              V.............................    110
157783355|Blaste_sp./1-110                 V.............................    110
157783359|Blastopsocus_sp./1-110           V.............................    110
109134710|Scolops_sulcipes/1-113           V.............................    113
109134724|Platybrachys_cf./1-114           V.............................    114
consensus                                  V
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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109134732|Petrusa_epilepsis/1-114      ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
305691057|Saltonia_incerta/1-114        ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
305691061|Paratheuma_armata/1-114      ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
305691065|Desis_marina/1-114           ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
305691069|Cybaeidae_gen./1-114         ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
305691071|Cybaeina_sp./1-114           ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
305691073|Cybaeina_sp./1-114           ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
305691075|Yorima_sp./1-114             ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
305691081|Cybaeidae_gen./1-114         ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
305691087|Cybaeota_sp./1-114           ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
109134798|Hilda_undata/1-113            ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
149286323|Romanchella_quadricost/1-113  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
257783547|Marisa_planogyra/1-113        ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
257783571|Pomacea_dolioides/1-113       ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
257783609|Pomacea_sordida/1-113         ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
305691079|Cybaeus_sp./1-113             ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
305691083|Cybaeidae_gen./1-113          ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
305691085|Cybaeus_sp./1-113             ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
109134680|Acanalonia_depressa/1-112     ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
290918578|Xiphocaris_elongata/1-126     ...............LSRTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                                                  *QTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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109134732|Petrusa_epilepsis/1-114      V.............................     114
305691057|Saltonia_incerta/1-114        V.............................     114
305691061|Paratheuma_armata/1-114       V.............................     114
305691065|Desis_marina/1-114            V.............................     114
305691069|Cybaeidae_gen./1-114          V.............................     114
305691071|Cybaeina_sp./1-114            V.............................     114
305691073|Cybaeina_sp./1-114            V.............................     114
305691075|Yorima_sp./1-114              V.............................     114
305691081|Cybaeidae_gen./1-114          V.............................     114
305691087|Cybaeota_sp./1-114            V.............................     114
109134798|Hilda_undata/1-113            V.............................     113
149286323|Romanchella_quadricost/1-113  V.............................     113
257783547|Marisa_planogyra/1-113        V.............................     113
257783571|Pomacea_dolioides/1-113       V.............................     113
257783609|Pomacea_sordida/1-113         V.............................     113
305691079|Cybaeus_sp./1-113             V.............................     113
305691083|Cybaeidae_gen./1-113          V.............................     113
305691085|Cybaeus_sp./1-113             V.............................     113
109134680|Acanalonia_depressa/1-112     V.............................     112
290918578|Xiphocaris_elongata/1-126     VTIMPKDNI.....................     126
consensus                               V
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
109134738|Ormenis_saucia/1-112          .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
109134752|Thionia_argo/1-112            .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
188037188|Parapalaeosepsis_apica/1-112  .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
188037210|Sepsis_indica/1-112            .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
188037216|Sepsis_nitens/1-112            .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
251824532|Calcinus_dapsiles/1-112        .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
251824534|Calcinus_albengai/1-112        .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
251824536|Calcinus_aff./1-112            .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
251824538|Calcinus_anani/1-112            .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
251824544|Calcinus_aff./1-112            .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
251824546|Calcinus_argus/1-112            .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
251824552|Calcinus_lineapropodus/1-112   .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
251824554|Calcinus_pulcher/1-112          .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
251824566|Calcinus_laurentae/1-112        .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
251824572|Calcinus_hakahau/1-112          .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
251824574|Calcinus_gouti/1-112            .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
251824578|Calcinus_seurati/1-112          .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
251824582|Calcinus_laevimanus/1-112      .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
251824586|Calcinus_imperialis/1-112      .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
251824588|Calcinus_vanninii/1-112        .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
consensus                                TARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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109134738|Ormenis_saucia/1-112          V.............................    112
109134752|Thionia_argo/1-112            V.............................    112
188037188|Parapalaeosepsis_apica/1-112  V.............................    112
188037210|Sepsis_indica/1-112            V.............................    112
188037216|Sepsis_nitens/1-112            V.............................    112
251824532|Calcinus_dapsiles/1-112        V.............................    112
251824534|Calcinus_albengai/1-112        V.............................    112
251824536|Calcinus_aff./1-112            V.............................    112
251824538|Calcinus_anani/1-112            V.............................    112
251824544|Calcinus_aff./1-112            V.............................    112
251824546|Calcinus_argus/1-112            V.............................    112
251824552|Calcinus_lineapropodus/1-112   V.............................    112
251824554|Calcinus_pulcher/1-112          V.............................    112
251824566|Calcinus_laurentae/1-112        V.............................    112
251824572|Calcinus_hakahau/1-112          V.............................    112
251824574|Calcinus_gouti/1-112            V.............................    112
251824578|Calcinus_seurati/1-112          V.............................    112
251824582|Calcinus_laevimanus/1-112      V.............................    112
251824586|Calcinus_imperialis/1-112      V.............................    112
251824588|Calcinus_vanninii/1-112        V.............................    112
consensus                                V
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
251824592|Calcinus_isabellae/1-112   .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824596|Calcinus_morgani/1-112     .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824600|Calcinus_gaimardii/1-112   .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824608|Calcinus_orchidae/1-112   .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824610|Calcinus_elegans/1-112    .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824614|Calcinus_aff./1-112       .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824618|Calcinus_guamensis/1-112   .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824622|Calcinus_aff./1-112       .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824626|Calcinus_vachoni/1-112    .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824630|Calcinus_aff./1-112       .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824632|Calcinus_aff./1-112       .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824636|Calcinus_hazletti/1-112   .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824640|Calcinus_rosaceus/1-112   .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
61677539|Anatoma_euglypta/1-125    .............MACTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
251824646|Calcinus_minutus/1-112    .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824650|Calcinus_nitidus/1-112    .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824654|Calcinus_haigae/1-112     .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824662|Calcinus_inconspicuus/1-112 .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824664|Calcinus_obscurus/1-112    .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824668|Calcinus_californiensi/1-112 .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
consensus                            TARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

251824592|Calcinus_isabellae/1-112   V.............................   112
251824596|Calcinus_morgani/1-112     V.............................   112
251824600|Calcinus_gaimardii/1-112   V.............................   112
251824608|Calcinus_orchidae/1-112    V.............................   112
251824610|Calcinus_elegans/1-112     V.............................   112
251824614|Calcinus_aff./1-112        V.............................   112
251824618|Calcinus_guamensis/1-112   V.............................   112
251824622|Calcinus_aff./1-112        V.............................   112
251824626|Calcinus_vachoni/1-112     V.............................   112
251824630|Calcinus_aff./1-112        V.............................   112
251824632|Calcinus_aff./1-112        V.............................   112
251824636|Calcinus_hazletti/1-112    V.............................   112
251824640|Calcinus_rosaceus/1-112    V.............................   112
61677539|Anatoma_euglypta/1-125      VTIMPKDI......................   125
251824646|Calcinus_minutus/1-112     V.............................   112
251824650|Calcinus_nitidus/1-112     V.............................   112
251824654|Calcinus_haigae/1-112      V.............................   112
251824662|Calcinus_inconspicuus/1-112 V............................   112
251824664|Calcinus_obscurus/1-112    V.............................   112
251824668|Calcinus_californiensi/1-112 V..........................   112
consensus                            V
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
251824672|Calcinus_mclaughlinae/1-112   .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824674|Calcinus_tibicen/1-112       .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824680|Calcinus_pascuensis/1-112    .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824682|Calcinus_spicatus/1-112      .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824686|Calcinus_aff./1-112         .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824690|Calcinus_aff./1-112         .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824694|Calcinus_latens/1-112        .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824698|Calcinus_verrillii/1-112    .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824700|Calcinus_tubularis/1-112     .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824708|Ciliopagurus_strigatus/1-112 .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824710|Ciliopagurus_sp./1-112      .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824712|Ciliopagurus_tricolor/1-112 .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824714|Dardanus_lagopodes/1-112    .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
251824716|Dardanus_sanguinocarpu/1-112 .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
53828063|Aetalion_reticulatum/1-111   .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
53828075|Aphrophora_alni/1-111        .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
53828087|Prosapia_bicincta/1-111      .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
53828091|Zulia_vilior/1-111           .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
53828095|Philaenus_maghresignus/1-111 .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
53828099|Epipyga_n./1-111             .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   111
consensus                                                      TARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                  V
251824672|Calcinus_mclaughlinae/1-112 V.............................   112
251824674|Calcinus_tibicen/1-112      V.............................   112
251824680|Calcinus_pascuensis/1-112   V.............................   112
251824682|Calcinus_spicatus/1-112     V.............................   112
251824686|Calcinus_aff./1-112         V.............................   112
251824690|Calcinus_aff./1-112         V.............................   112
251824694|Calcinus_latens/1-112       V.............................   112
251824698|Calcinus_verrillii/1-112    V.............................   112
251824700|Calcinus_tubularis/1-112    V.............................   112
251824708|Ciliopagurus_strigatus/1-112 V............................   112
251824710|Ciliopagurus_sp./1-112      V.............................   112
251824712|Ciliopagurus_tricolor/1-112 V............................   112
251824714|Dardanus_lagopodes/1-112    V.............................   112
251824716|Dardanus_sanguinocarpu/1-112 V...........................   112
53828063|Aetalion_reticulatum/1-111   ..............................   111
53828075|Aphrophora_alni/1-111        ..............................   111
53828087|Prosapia_bicincta/1-111      ..............................   111
53828091|Zulia_vilior/1-111           ..............................   111
53828095|Philaenus_maghresignus/1-111 ..............................   111
53828099|Epipyga_n./1-111             ..............................   111
consensus                             *
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

```
logo                                                 4 ]                   TARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR [ 4
                                                     3 ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 ]
                                                     1 ]
53828105|Mahanarva_costaricensis/1-111      .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
53828107|Cephisus_siccifolius/1-111          .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
53828109|Froggattoides_typicus/1-111         .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
53828111|Pauropsalta_corticinus/1-111        .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
53828123|Deiroderes_inermis/1-111            .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
53828127|Gerridius_fowleri/1-111             .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
53828129|Guayaquila_gracilicorni/1-111       .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
297040892|Callobius_pictus/1-120             ................ACSKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
53828131|Flexamia_areolata/1-111             .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
53828133|Lophyraspis_sp./1-111               .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
196175185|Odontoptera_carrenoi/1-111         .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
240155929|Ochmacanthus_cf./1-111             .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    111
30139734|Amphiporus_angulatus/1-110          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
30139736|Amphiporus_formidabilis/1-110       .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
30139738|Amphiporus_imparispinos/1-110       .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
30140254|Emplectonema_buergeri/1-110         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
30140256|Emplectonema_gracile/1-110           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
30140258|Gurjanovella_littoralis/1-110       .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
30140260|Malacobdella_grossa/1-110           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
30140262|Poseidonemertes_sp./1-110           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
consensus                                          *ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                 4 ]                                   [ 4
                                                     3 ]                                   [ 3
                                                     2 ]                                   [ 2
                                                     1 ]                                   [ 1
53828105|Mahanarva_costaricensis/1-111      ..............................      111
53828107|Cephisus_siccifolius/1-111         ..............................      111
53828109|Froggattoides_typicus/1-111        ..............................      111
53828111|Pauropsalta_corticinus/1-111       ..............................      111
53828123|Deiroderes_inermis/1-111           ..............................      111
53828127|Gerridius_fowleri/1-111            ..............................      111
53828129|Guayaquila_gracilicorni/1-111      ..............................      111
297040892|Callobius_pictus/1-120            VTIM..........................      120
53828131|Flexamia_areolata/1-111            ..............................      111
53828133|Lophyraspis_sp./1-111              ..............................      111
196175185|Odontoptera_carrenoi/1-111        ..............................      111
240155929|Ochmacanthus_cf./1-111            ..............................      111
30139734|Amphiporus_angulatus/1-110         ..............................      110
30139736|Amphiporus_formidabilis/1-110      ..............................      110
30139738|Amphiporus_imparispinos/1-110      ..............................      110
30140254|Emplectonema_buergeri/1-110        ..............................      110
30140256|Emplectonema_gracile/1-110         ..............................      110
30140258|Gurjanovella_littoralis/1-110      ..............................      110
30140260|Malacobdella_grossa/1-110          ..............................      110
30140262|Poseidonemertes_sp./1-110          ..............................      110
consensus
```

X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                 4 KQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                     3                                                                                                                                                 3
                                                     2                                                                                                                                                 2
                                                     1                                                                                                                                                 1

30140266|Nemertopsis_bivittata/1-110                 ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
30140268|Nipponemertes_bimaculat/1-110               ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
30140270|Prosadenoporus_floriden/1-110               ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
30140274|Paranemertes_sanjuanens/1-110               ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
30140282|Phallonemertes_murrayi/1-110                ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
30140284|Cerebratulus_marginatus/1-110               ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
30140286|Lineus_alborostratus/1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
30140288|Lineus_bicolor/1-110                        ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
187948513|Leptopecten_bavayi/1-113                  ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948517|Amusium_balloti/1-113                     ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948525|Ctenoides_annulata/1-113                  ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948527|Ctenoides_mita/1-113                      ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948529|Semipallium_dringi/1-113                  ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948531|Argopecten_gibbus/1-113                   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948535|Crassadoma_gigantea/1-113                 ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948537|Aequipecten_glyptus/1-113                 ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948543|Limaria_hemphilli/1-113                   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948545|Limaria_pellucida/1-113                   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948547|Coralichlamys_madrepor/1-113               ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948553|Semipallium_marybellae/1-113               ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
consensus                                            ***ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                                 4                                 4
                                                     3                                 3
                                                     2                                 2
                                                     1                                 1

30140266|Nemertopsis_bivittata/1-110                 ..................................   110
30140268|Nipponemertes_bimaculat/1-110               ..................................   110
30140270|Prosadenoporus_floriden/1-110               ..................................   110
30140274|Paranemertes_sanjuanens/1-110               ..................................   110
30140282|Phallonemertes_murrayi/1-110                ..................................   110
30140284|Cerebratulus_marginatus/1-110               ..................................   110
30140286|Lineus_alborostratus/1-110                  ..................................   110
30140288|Lineus_bicolor/1-110                        ..................................   110
187948513|Leptopecten_bavayi/1-113                  ..................................   113
187948517|Amusium_balloti/1-113                     ..................................   113
187948525|Ctenoides_annulata/1-113                  ..................................   113
187948527|Ctenoides_mita/1-113                      ..................................   113
187948529|Semipallium_dringi/1-113                  ..................................   113
187948531|Argopecten_gibbus/1-113                   ..................................   113
187948535|Crassadoma_gigantea/1-113                 ..................................   113
187948537|Aequipecten_glyptus/1-113                 ..................................   113
187948543|Limaria_hemphilli/1-113                   ..................................   113
187948545|Limaria_pellucida/1-113                   ..................................   113
187948547|Coralichlamys_madrepor/1-113               ..................................   113
187948553|Semipallium_marybellae/1-113               ..................................   113
consensus
```

X	non conserved
X	similar
X	$\geq$ 50% conserved
X	$\geq$ 80% conserved

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logo                                                  4 KQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                 3
                                                      2                                                                                                                                                 2
                                                      1                                                                                                                                                 1
187948557|Mirapecten_mirificus/1-113                  ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
8070|Drosophila_melanogaster/1-136                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
187948561|Talochlamys_multistria/1-113                ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948565|Pecten_novaezelandiae/1-113                ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948569|Argopecten_nucleus/1-113                   ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948571|Aequipecten_operculari/1-113               ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948575|Gloripallium_pallium/1-113                 ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948577|Parvamussium_pourtales/1-113               ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948579|Zygochlamys_patagonica/1-113               ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948581|Euvola_perulus/1-113                       ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948585|Amusium_pleuronectes/1-113                 ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948587|Propeamussium_dalli/1-113                 ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948589|Argopecten_purpuratus/1-113                ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948593|Euvola_raveneli/1-113                      ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948597|Pseudamussium_peslutra/1-113               ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948599|Mirapecten_spiceri/1-113                   ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948601|Spondylus_ictericus/1-113                  ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948603|Spondylus_nicobaricus/1-113                ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948605|Spondylus_squamosus/1-113                  ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948607|Laevichlamys_squamosa/1-113                ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
consensus                                             KQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4                                 4
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                                                      2                                 2
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187948557|Mirapecten_mirificus/1-113                  ..................................   113
8070|Drosophila_melanogaster/1-136                    ITIMPKDIQLARRIRGERA...............   136
187948561|Talochlamys_multistria/1-113                ..................................   113
187948565|Pecten_novaezelandiae/1-113                ..................................   113
187948569|Argopecten_nucleus/1-113                   ..................................   113
187948571|Aequipecten_operculari/1-113               ..................................   113
187948575|Gloripallium_pallium/1-113                 ..................................   113
187948577|Parvamussium_pourtales/1-113               ..................................   113
187948579|Zygochlamys_patagonica/1-113               ..................................   113
187948581|Euvola_perulus/1-113                       ..................................   113
187948585|Amusium_pleuronectes/1-113                 ..................................   113
187948587|Propeamussium_dalli/1-113                 ..................................   113
187948589|Argopecten_purpuratus/1-113                ..................................   113
187948593|Euvola_raveneli/1-113                      ..................................   113
187948597|Pseudamussium_peslutra/1-113               ..................................   113
187948599|Mirapecten_spiceri/1-113                   ..................................   113
187948601|Spondylus_ictericus/1-113                  ..................................   113
187948603|Spondylus_nicobaricus/1-113                ..................................   113
187948605|Spondylus_squamosus/1-113                  ..................................   113
187948607|Laevichlamys_squamosa/1-113                ..................................   113
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
187948609|Nodipecten_subnodosus/1-113
187948611|Mimachlamys_varia/1-113
187948613|Laevichlamys_irregular/1-113
187948617|Euvola_ziczac/1-113
238683774|Patinopecten_caurinus/1-113
238683776|Azumapecten_farreri/1-113
238683780|Chlamys_rubida/1-113
238683784|Chlamys_hastata/1-113
260850279|Betaeus_harrimani/1-113
260850281|Metabetaeus_sp./1-113
260850283|Nikoides_danae/1-113
187948567|Argopecten_nucleus/1-112
187948595|Pseudamussium_peslutra/1-112
187948615|Euvola_ziczac/1-112
257783587|Pomacea_scalaris/1-112
194772399|Drosophila_ananassae/1-136
195424004|Drosophila_willistoni/1-136
150247811|Thrinaconyx_fumosus/1-121
300248321|Prosapia_simulans/1-112
300248313|Philaenus_tesselatus/1-111
consensus
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logo
187948609|Nodipecten_subnodosus/1-113
187948611|Mimachlamys_varia/1-113
187948613|Laevichlamys_irregular/1-113
187948617|Euvola_ziczac/1-113
238683774|Patinopecten_caurinus/1-113
238683776|Azumapecten_farreri/1-113
238683780|Chlamys_rubida/1-113
238683784|Chlamys_hastata/1-113
260850279|Betaeus_harrimani/1-113
260850281|Metabetaeus_sp./1-113
260850283|Nikoides_danae/1-113
187948567|Argopecten_nucleus/1-112
187948595|Pseudamussium_peslutra/1-112
187948615|Euvola_ziczac/1-112
257783587|Pomacea_scalaris/1-112
194772399|Drosophila_ananassae/1-136
195424004|Drosophila_willistoni/1-136
150247811|Thrinaconyx_fumosus/1-121
300248321|Prosapia_simulans/1-112
300248313|Philaenus_tesselatus/1-111
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                 4]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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53828065|Pectinariophyes_reticul/1-110                 .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  110
53828067|Philaenus_spumarius/1-110                    .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  110
53828079|Aphrophora_cribrata/1-110                    .....TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  110
53828081|Lepyronia_quadrangulari/1-109               .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  109
300248309|Clastoptera_xanthoceph/1-109               .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  109
300248355|Maxantonia_diversa/1-109                   .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  109
4883741|Cormocephalus_sp./1-108                       .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  108
4883757|Branchinella_sp./1-108                        .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  108
91719010|Ascorhynchus_japonicus/1-108                .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  108
91719012|Achelia_hoekii/1-108                         .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  108
91719020|Endeis_australis/1-108                       .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  108
91719032|Hedgpethia_dofleini/1-108                    .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  108
91719036|Callipallene_brevirostr/1-108               .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  108
91719042|Pantopipetta_sp./1-108                       .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  108
91719044|Oropallene_minor/1-108                       .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  108
91719046|Ascorhynchus_castellioi/1-108               .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  108
91719050|Colossendeis_tenera/1-108                   .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  108
91719052|Decolopoda_australis/1-108                  .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  108
91719056|Tanystylum_orbiculare/1-108                 .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  108
91719068|Achelia_sawayai/1-108                       .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  108
consensus                                            RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK
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logo                                                 4]                                  [4
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                                                     1]                                  [1
53828065|Pectinariophyes_reticul/1-110               ..................................      110
53828067|Philaenus_spumarius/1-110                   ..................................      110
53828079|Aphrophora_cribrata/1-110                   ..................................      110
53828081|Lepyronia_quadrangulari/1-109               ..................................      109
300248309|Clastoptera_xanthoceph/1-109               ..................................      109
300248355|Maxantonia_diversa/1-109                   ..................................      109
4883741|Cormocephalus_sp./1-108                      ..................................      108
4883757|Branchinella_sp./1-108                       ..................................      108
91719010|Ascorhynchus_japonicus/1-108                ..................................      108
91719012|Achelia_hoekii/1-108                        ..................................      108
91719020|Endeis_australis/1-108                      ..................................      108
91719032|Hedgpethia_dofleini/1-108                   ..................................      108
91719036|Callipallene_brevirostr/1-108               ..................................      108
91719042|Pantopipetta_sp./1-108                      ..................................      108
91719044|Oropallene_minor/1-108                      ..................................      108
91719046|Ascorhynchus_castellioi/1-108               ..................................      108
91719050|Colossendeis_tenera/1-108                   ..................................      108
91719052|Decolopoda_australis/1-108                  ..................................      108
91719056|Tanystylum_orbiculare/1-108                 ..................................      108
91719068|Achelia_sawayai/1-108                       ..................................      108
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
91719070|Anoplodactylus_sp./1-108                  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      108
91719082|Colossendeis_stramenti/1-108               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      108
91719084|Pentapycnon_charcoti/1-108                 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      108
91719100|Achelia_assimilis/1-108                    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      108
91719110|Eurycyde_spinosa/1-108                     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      108
94014524|Copelatus_sp./1-108                        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      108
94014588|Copelatus_sp./1-108                        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      108
94014749|Copelatus_sp./1-108                        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      108
110555249|Ghelna_canadensis/1-108                  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      108
110555251|Heliophanus_cupreus/1-108                 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      108
68509539|Isonychia_sp./1-124                        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
110555255|Pellenes_peninsularis/1-108               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      108
110555261|Lyssomanes_viridis/1-108                  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      108
262178726|Selenops_insularis/1-108                  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      108
281323552|Stylocellus_sp./1-108                     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      108
300248365|Laccogrypota_praelata/1-108               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      108
4883734|Oroperipatus_corradoi/1-107                 ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
53828125|Neolieftinckana_sp./1-107                  ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
150247831|Amorphoscelis_borneana/1-117              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
196481252|Arachnocolus_phillipsi/1-117              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                                                                   RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK
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91719070|Anoplodactylus_sp./1-108                  ..............................      108
91719082|Colossendeis_stramenti/1-108               ..............................      108
91719084|Pentapycnon_charcoti/1-108                 ..............................      108
91719100|Achelia_assimilis/1-108                    ..............................      108
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110555251|Heliophanus_cupreus/1-108                 ..............................      108
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300248365|Laccogrypota_praelata/1-108               ..............................      108
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53828125|Neolieftinckana_sp./1-107                  ..............................      107
150247831|Amorphoscelis_borneana/1-117              ..............................      117
196481252|Arachnocolus_phillipsi/1-117              ..............................      117
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
196481296|Leptophlebia_johnsoni/1-117   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
196481320|Habrophlebia_vibrans/1-117     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
196481256|Austroclima_jollyae/1-116     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   116
196481272|Meridialaris_diguillin/1-116  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   116
196481274|Meridialaris_laminata/1-116   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   116
196481276|Neozephlebia_scita/1-116      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   116
196481304|Paraleptophlebia_heter/1-116  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   116
228205140|Bellamya_trochlearis/1-116   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   116
107859926|Elysia_pratensis/1-107         .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
107859928|Elysia_setoensis/1-107         .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
107859930|Elysia_cf./1-107               .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
107859932|Elysia_subornata/1-107          .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
107859934|Elysia_timida/1-107            .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
107859938|Elysia_rufescens/1-107          .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
107859940|Elysia_sp./1-107               .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
107859942|Elysia_trisinuata/1-107         .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
107859944|Elysia_nigrocapitata/1-107     .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
107859946|Elysia_cf./1-107               .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
107859948|Elysia_ornata/1-107             .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
107859956|Elysia_obtusa/1-107             .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
consensus                                                        K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK

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196481296|Leptophlebia_johnsoni/1-117   ..................................   117
196481320|Habrophlebia_vibrans/1-117     ..................................   117
196481256|Austroclima_jollyae/1-116     ..................................   116
196481272|Meridialaris_diguillin/1-116  ..................................   116
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107859928|Elysia_setoensis/1-107         ..................................   107
107859930|Elysia_cf./1-107               ..................................   107
107859932|Elysia_subornata/1-107         ..................................   107
107859934|Elysia_timida/1-107            ..................................   107
107859938|Elysia_rufescens/1-107         ..................................   107
107859940|Elysia_sp./1-107               ..................................   107
107859942|Elysia_trisinuata/1-107        ..................................   107
107859944|Elysia_nigrocapitata/1-107     ..................................   107
107859946|Elysia_cf./1-107               ..................................   107
107859948|Elysia_ornata/1-107            ..................................   107
107859956|Elysia_obtusa/1-107            ..................................   107
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
107859958|Elysia_bennettae/1-107                .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
107859960|Elysia_tuca/1-107                       .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
107859962|Elysia_cf./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
107859966|Elysia_papillosa/1-107                  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
297040874|Callobius_guachama/1-124               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
283857451|Fieberiella_florii/1-117                ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
107859968|Bosellia_cf./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
107859970|Elysia_serca/1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
107859972|Elysia_diomedea/1-107                   .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
107859974|Elysia_viridis/1-107                    .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
107859976|Elysia_canguzua/1-107                   .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
107859978|Elysia_crispata/1-107                   .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
107859984|Elysia_chlorotica/1-107                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
150247841|Acanthops_sp./1-118                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
107859986|Elysia_pusilla/1-107                    .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
107859988|Bosellia_mimetica/1-107                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
107859990|Plakobranchus_ocellatu/1-107            .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
107859994|Thuridilla_bayeri/1-107                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
107860000|Thuridilla_neona/1-107                  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
107860002|Thuridilla_undula/1-107                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.      107
consensus                                          K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK

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107859958|Elysia_bennettae/1-107                 ..............................      107
107859960|Elysia_tuca/1-107                       ..............................      107
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107859966|Elysia_papillosa/1-107                  ..............................      107
297040874|Callobius_guachama/1-124                VTIXPKD.......................      124
283857451|Fieberiella_florii/1-117                VTIX.........................      117
107859968|Bosellia_cf./1-107                      ..............................      107
107859970|Elysia_serca/1-107                      ..............................      107
107859972|Elysia_diomedea/1-107                   ..............................      107
107859974|Elysia_viridis/1-107                    ..............................      107
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107859988|Bosellia_mimetica/1-107                 ..............................      107
107859990|Plakobranchus_ocellatu/1-107            ..............................      107
107859994|Thuridilla_bayeri/1-107                 ..............................      107
107860000|Thuridilla_neona/1-107                  ..............................      107
107860002|Thuridilla_undula/1-107                 ..............................      107
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
107860004|Thuridilla_livida/1-107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
107860006|Thuridilla_vatae/1-107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
68509561|Erythemis_sp./1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726111|Astacus_astacus/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726113|Atyoida_bisulcata/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726115|Biffarius_arenosus/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726117|Callianassa_subterranea/1-111                                                                                                                                
71726119|Callichirus_major/1-111                                                                                                
71726121|Cambarellus_shufeldtii/1-111                                                                
71726127|Cancer_pagurus/1-111                                                
71726129|Carcinus_maenas/1-111                                
71726137|Emerita_brasiliensis/1-111                
71726141|Homarus_americanus/1-111                
71726143|Homarus_gammarus/1-111                
71726147|Lepidophthalmus_louisia/1-111                
71726149|Lithodes_santolla/1-111                
71726161|Macrobrachium_potiuna/1-111                
71726167|Munida_subrugosa/1-111                
71726169|Necora_puber/1-111                
150247789|Hapalopeza_nilgirica/1-125                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
107860004|Thuridilla_livida/1-107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
107860006|Thuridilla_vatae/1-107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
68509561|Erythemis_sp./1-117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726111|Astacus_astacus/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726113|Atyoida_bisulcata/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726115|Biffarius_arenosus/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726117|Callianassa_subterranea/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726119|Callichirus_major/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726121|Cambarellus_shufeldtii/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726127|Cancer_pagurus/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726129|Carcinus_maenas/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726137|Emerita_brasiliensis/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726141|Homarus_americanus/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726143|Homarus_gammarus/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726147|Lepidophthalmus_louisia/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726149|Lithodes_santolla/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726161|Macrobrachium_potiuna/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726167|Munida_subrugosa/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
71726169|Necora_puber/1-111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
150247789|Hapalopeza_nilgirica/1-125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
297040782|Callobius_sp./1-124          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
71726171|Nematoscelis_sp./1-111          ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
71726173|Nephropsis_aculeata/1-111       ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
71726175|Nephrops_norvegicus/1-111       ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
71726179|Pachygrapsus_marmoratus/1-111   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
71726181|Pacifastacus_leniusculu/1-111   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
71726183|Palaemon_elegans/1-111          ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
158327364|Orchestia_gomeri/1-123         ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
158327368|Orchestia_sp./1-123           ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
297040934|Callobius_nomeus/1-123         ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
71726189|Scyllarus_arctus/1-111          ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
71726191|Sergio_mericeae/1-111           ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
71726193|Stenopus_hispidus/1-111         ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
71726195|Typhlatya_pearsei/1-111         ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
71726197|Uroptychus_parvulus/1-111       ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
188037154|Archisepsis_excavata/1-111    ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
188037178|Dicranosepsis_papuana/1-111    ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
188037192|Paratoxopoda_amonane/1-111    ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
283857455|Gcaleka_acuta/1-117            ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
297040926|Cybaeopsis_sp./1-117           ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
consensus                                                          ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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297040782|Callobius_sp./1-124          VTXMPKD.........................   124
71726171|Nematoscelis_sp./1-111          V..............................   111
71726173|Nephropsis_aculeata/1-111       V..............................   111
71726175|Nephrops_norvegicus/1-111       V..............................   111
71726179|Pachygrapsus_marmoratus/1-111   V..............................   111
71726181|Pacifastacus_leniusculu/1-111   V..............................   111
71726183|Palaemon_elegans/1-111          V..............................   111
158327364|Orchestia_gomeri/1-123         VTXMPKD.........................   123
158327368|Orchestia_sp./1-123            VTXMPKD.........................   123
297040934|Callobius_nomeus/1-123         VTXMPKD.........................   123
71726189|Scyllarus_arctus/1-111          V..............................   111
71726191|Sergio_mericeae/1-111           V..............................   111
71726193|Stenopus_hispidus/1-111         V..............................   111
71726195|Typhlatya_pearsei/1-111         V..............................   111
71726197|Uroptychus_parvulus/1-111       V..............................   111
188037154|Archisepsis_excavata/1-111     V..............................   111
188037178|Dicranosepsis_papuana/1-111    V..............................   111
188037192|Paratoxopoda_amonane/1-111     V..............................   111
283857455|Gcaleka_acuta/1-117            VTXM............................   117
297040926|Cybaeopsis_sp./1-117           VTXM............................   117
consensus                                V
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
188037204|Sepsis_duplicata/1-111          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
188037226|Sepsis_violacea/1-111          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
196175147|Phrictus_quinquepartit/1-111  .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525470|Liocarcinus_depurator/1-111  .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525472|Liocarcinus_maculatus/1-111  .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525478|Polycheles_typhlops/1-111     .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525480|Thenus_orientalis/1-111        .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525482|Thenus_unimaculatus/1-111     .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525486|Scyllarus_caparti/1-111        .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525488|Scyllarus_pygmaeus/1-111      .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525490|Scyllarides_latus/1-111        .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525492|Scyllarides_herklotsii/1-111  .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525494|Scyllarus_posteli/1-111       .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525496|Scyllarus_subarctus/1-111     .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525498|Palinustus_waguensis/1-111    .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525500|Jasus_edwardsii/1-111          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525502|Jasus_tristani/1-111          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525504|Jasus_lalandii/1-111          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525506|Jasus_verreauxi/1-111          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
219525508|Projasus_bahamondei/1-111     .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
consensus                                                   ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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188037204|Sepsis_duplicata/1-111          V.............................     111
188037226|Sepsis_violacea/1-111          V.............................     111
196175147|Phrictus_quinquepartit/1-111   V.............................     111
219525470|Liocarcinus_depurator/1-111    V.............................     111
219525472|Liocarcinus_maculatus/1-111    V.............................     111
219525478|Polycheles_typhlops/1-111      V.............................     111
219525480|Thenus_orientalis/1-111        V.............................     111
219525482|Thenus_unimaculatus/1-111      V.............................     111
219525486|Scyllarus_caparti/1-111        V.............................     111
219525488|Scyllarus_pygmaeus/1-111       V.............................     111
219525490|Scyllarides_latus/1-111        V.............................     111
219525492|Scyllarides_herklotsii/1-111   V.............................     111
219525494|Scyllarus_posteli/1-111        V.............................     111
219525496|Scyllarus_subarctus/1-111      V.............................     111
219525498|Palinustus_waguensis/1-111     V.............................     111
219525500|Jasus_edwardsii/1-111          V.............................     111
219525502|Jasus_tristani/1-111           V.............................     111
219525504|Jasus_lalandii/1-111           V.............................     111
219525506|Jasus_verreauxi/1-111          V.............................     111
219525508|Projasus_bahamondei/1-111      V.............................     111
consensus                                V
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
219525510|Projasus_parkeri/1-111          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
219525512|Justitia_longimana/1-111          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
219525514|Linuparus_trigonus/1-111           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
158327378|Orchestia_gammarellus/1-122     ................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    114
226597112|Cybaeus_eutypus/1-125             ..............MACTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
219525516|Palibythus_magnificus/1-111       .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
219525518|Palinurus_barbarae/1-111           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
219525520|Palinurus_charlestoni/1-111        .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
219525522|Palinurus_delagoae/1-111           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
219525524|Palinurus_gilchristi/1-111         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
219525526|Palinurus_mauritanicus/1-111      .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
219525528|Palinurus_elephas/1-111            .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
219525530|Puerulus_angulatus/1-111           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
219525532|Panulirus_regius/1-111             .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
219525534|Panulirus_homarus/1-111             .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
219525536|Panulirus_inflatus/1-111            .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
219525538|Panulirus_japonicus/1-111           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
219525540|Panulirus_penicillatus/1-111       .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
300248371|Sphenorhina_proserpina/1-111      .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
300248385|Cosmoscarta_heros/1-111           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
consensus                                                          ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

219525510|Projasus_parkeri/1-111          V.............................    111
219525512|Justitia_longimana/1-111          V.............................    111
219525514|Linuparus_trigonus/1-111          V.............................    111
158327378|Orchestia_gammarellus/1-122       VTXMPKDI......................    122
226597112|Cybaeus_eutypus/1-125             VTXMPKDI......................    125
219525516|Palibythus_magnificus/1-111       V.............................    111
219525518|Palinurus_barbarae/1-111          V.............................    111
219525520|Palinurus_charlestoni/1-111       V.............................    111
219525522|Palinurus_delagoae/1-111          V.............................    111
219525524|Palinurus_gilchristi/1-111        V.............................    111
219525526|Palinurus_mauritanicus/1-111      V.............................    111
219525528|Palinurus_elephas/1-111           V.............................    111
219525530|Puerulus_angulatus/1-111          V.............................    111
219525532|Panulirus_regius/1-111            V.............................    111
219525534|Panulirus_homarus/1-111            V.............................    111
219525536|Panulirus_inflatus/1-111           V.............................    111
219525538|Panulirus_japonicus/1-111          V.............................    111
219525540|Panulirus_penicillatus/1-111       V.............................    111
300248371|Sphenorhina_proserpina/1-111      V.............................    111
300248385|Cosmoscarta_heros/1-111           V.............................    111
consensus                                   V
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300248391|Suracarta_tricolor/1-111      .....ETARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
30140290|Micrura_alaskensis/1-110       .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
30140294|Carinoma_mutabilis/1-110       .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
30140296|Carinoma_tremaphoros/1-110    .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
30140300|Cephalothrix_simula/1-110     .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
30140422|Zygonemertes_simonae/1-110    .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
30140424|Zygonemertes_virescens/1-110  .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
30140428|reptant_nemertean/1-110      .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
30140430|reptant_nemertean/1-110      .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
30140436|Procephalotrix_spiralis/1-110 .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
30140438|Tubulanus_rhabdotus/1-110    .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
30140440|Tubulanus_sexlineatus/1-110  .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
50897602|Hoplostethus_mediterran/1-110 .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
50897604|Menidia_menidia/1-110         .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
50897610|Pegasus_volitans/1-110        .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
50897754|Morone_saxatilis/1-110        .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
50897769|Etheostoma_blennioides/1-110 .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
50897771|Perca_flavescens/1-110       .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
296784569|Lobopilumnus_agassizii/1-115 .....ETARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
296784579|Platyactaea_dovii/1-115     .....ETARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  112
consensus                                 ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

300248391|Suracarta_tricolor/1-111      V.............................  111
30140290|Micrura_alaskensis/1-110       .............................  110
30140294|Carinoma_mutabilis/1-110       .............................  110
30140296|Carinoma_tremaphoros/1-110     .............................  110
30140300|Cephalothrix_simula/1-110      .............................  110
30140422|Zygonemertes_simonae/1-110     .............................  110
30140424|Zygonemertes_virescens/1-110   .............................  110
30140428|reptant_nemertean/1-110        .............................  110
30140430|reptant_nemertean/1-110        .............................  110
30140436|Procephalotrix_spiralis/1-110  .............................  110
30140438|Tubulanus_rhabdotus/1-110      .............................  110
30140440|Tubulanus_sexlineatus/1-110    .............................  110
50897602|Hoplostethus_mediterran/1-110  .............................  110
50897604|Menidia_menidia/1-110          .............................  110
50897610|Pegasus_volitans/1-110         .............................  110
50897754|Morone_saxatilis/1-110         .............................  110
50897769|Etheostoma_blennioides/1-110   .............................  110
50897771|Perca_flavescens/1-110         .............................  110
296784569|Lobopilumnus_agassizii/1-115  VTI..........................  115
296784579|Platyactaea_dovii/1-115       VTI..........................  115
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
296784599|Micropanope_truncatifr/1-115   ....................ETARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
296784609|Micropanope_pusilla/1-115     ....................ETARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
296784611|Batodaeus_urinator/1-115      ....................ETARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   112
50897773|Hoplolatilus_purpureus/1-110   .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
50897775|Haemulon_plumieri/1-110        .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
50897777|Kuhlia_rupestris/1-110         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
53828073|Lepyronia_coleoptrata/1-110    .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
53828103|Evexus_n./1-110                .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
53828115|Tettigarcta_tomentosa/1-110    .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
53828119|Nothodelphax_gillettei/1-110   .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
53828121|Scolops_sp./1-110              .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
53828137|Tangia_viridis/1-110           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
56089735|Bedotia_geayi/1-110            .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
56089737|Bedotia_longianalis/1-110      .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
56089741|Bedotia_madagascariensi/1-110  .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
56089743|Bedotia_marojejy/1-110         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
56089745|Bedotia_masoala/1-110          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
56089747|Bedotia_tricolor/1-110         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
56089749|Rheocles_alaotrensis/1-110     .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
56089753|Rheocles_lateralis/1-110       .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
consensus                                                     ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

296784599|Micropanope_truncatifr/1-115   VTI.............................   115
296784609|Micropanope_pusilla/1-115     VTI.............................   115
296784611|Batodaeus_urinator/1-115      VTI.............................   115
50897773|Hoplolatilus_purpureus/1-110   ................................   110
50897775|Haemulon_plumieri/1-110        ................................   110
50897777|Kuhlia_rupestris/1-110         ................................   110
53828073|Lepyronia_coleoptrata/1-110    ................................   110
53828103|Evexus_n./1-110                ................................   110
53828115|Tettigarcta_tomentosa/1-110    ................................   110
53828119|Nothodelphax_gillettei/1-110   ................................   110
53828121|Scolops_sp./1-110              ................................   110
53828137|Tangia_viridis/1-110           ................................   110
56089735|Bedotia_geayi/1-110            ................................   110
56089737|Bedotia_longianalis/1-110      ................................   110
56089741|Bedotia_madagascariensi/1-110  ................................   110
56089743|Bedotia_marojejy/1-110         ................................   110
56089745|Bedotia_masoala/1-110          ................................   110
56089747|Bedotia_tricolor/1-110         ................................   110
56089749|Rheocles_alaotrensis/1-110     ................................   110
56089753|Rheocles_lateralis/1-110       ................................   110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
56089755|Rheocles_vatosoa/1-110                  .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089757|Rheocles_wrightae/1-110                  .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089759|Bedotia_sp./1-110                         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089761|Bedotia_sp./1-110                         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089763|Bedotia_sp./1-110                         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089765|Bedotia_sp./1-110                         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089767|Bedotia_sp./1-110                         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089769|Bedotia_sp./1-110                         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089771|Bedotia_sp./1-110                         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089773|Bedotia_sp./1-110                         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089775|Bedotia_sp./1-110                         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089777|Bedotia_sp./1-110                         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089779|Bedotia_sp./1-110                         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089783|Iriatherina_werneri/1-110                 .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089787|Melanotaenia_praecox/1-110                .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089789|Cairnsichthys_rhombosom/1-110             .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
239736595|Oniscigaster_distans/1-121              ...............MSRTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
56089791|Rhadinocentrus_ornatus/1-110              .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089795|Pseudomugil_gertrudae/1-110               .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
56089797|Pseudomugil_signifer/1-110                .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
consensus                                          ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

56089755|Rheocles_vatosoa/1-110                  ..............................    110
56089757|Rheocles_wrightae/1-110                  ..............................    110
56089759|Bedotia_sp./1-110                         ..............................    110
56089761|Bedotia_sp./1-110                         ..............................    110
56089763|Bedotia_sp./1-110                         ..............................    110
56089765|Bedotia_sp./1-110                         ..............................    110
56089767|Bedotia_sp./1-110                         ..............................    110
56089769|Bedotia_sp./1-110                         ..............................    110
56089771|Bedotia_sp./1-110                         ..............................    110
56089773|Bedotia_sp./1-110                         ..............................    110
56089775|Bedotia_sp./1-110                         ..............................    110
56089777|Bedotia_sp./1-110                         ..............................    110
56089779|Bedotia_sp./1-110                         ..............................    110
56089783|Iriatherina_werneri/1-110                 ..............................    110
56089787|Melanotaenia_praecox/1-110                ..............................    110
56089789|Cairnsichthys_rhombosom/1-110             ..............................    110
239736595|Oniscigaster_distans/1-121              VTIM..........................    121
56089791|Rhadinocentrus_ornatus/1-110              ..............................    110
56089795|Pseudomugil_gertrudae/1-110               ..............................    110
56089797|Pseudomugil_signifer/1-110                ..............................    110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
56089799|Atherina_hepsetus/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
56089803|Atherinosoma_microstoma/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
56089807|Teramulus_waterloti/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
56089813|Atherinops_affinis/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
56089821|Atherion_elymus/1-110                                                                                
56089832|Atherinomorus_sp./1-110                                                                                
58199293|Calloplesiops_altivelis/1-110                                                                                
58199295|Ctenopoma_acutirostre/1-110                                                                                
58199305|Cetoscarus_bicolor/1-110                                                                                
58199311|Tautoga_onitis/1-110                                                                                
58199313|Cymatogaster_aggregata/1-110                                                                                
58199315|Embiotoca_jacksoni/1-110                                                                                
58199317|Amphiprion_polymnus/1-110                                                                                
58199319|Etroplus_canarensis/1-110                                                                                
58199323|Etroplus_maculatus/1-110                                                                                
58199327|Paretroplus_damii/1-110                                                                                
58199332|Paretroplus_cf./1-110                                                                                
58199341|Paretroplus_nourissati/1-110                                                                                
58199345|Paretroplus_tsimoly/1-110                                                                                
58199347|Paretroplus_sp./1-110                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
56089799|Atherina_hepsetus/1-110                                                                                
56089803|Atherinosoma_microstoma/1-110                                                                                
56089807|Teramulus_waterloti/1-110                                                                                
56089813|Atherinops_affinis/1-110                                                                                
56089821|Atherion_elymus/1-110                                                                                
56089832|Atherinomorus_sp./1-110                                                                                
58199293|Calloplesiops_altivelis/1-110                                                                                
58199295|Ctenopoma_acutirostre/1-110                                                                                
58199305|Cetoscarus_bicolor/1-110                                                                                
58199311|Tautoga_onitis/1-110                                                                                
58199313|Cymatogaster_aggregata/1-110                                                                                
58199315|Embiotoca_jacksoni/1-110                                                                                
58199317|Amphiprion_polymnus/1-110                                                                                
58199319|Etroplus_canarensis/1-110                                                                                
58199323|Etroplus_maculatus/1-110                                                                                
58199327|Paretroplus_damii/1-110                                                                                
58199332|Paretroplus_cf./1-110                                                                                
58199341|Paretroplus_nourissati/1-110                                                                                
58199345|Paretroplus_tsimoly/1-110                                                                                
58199347|Paretroplus_sp./1-110                                                                                
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199351|Oxylapia_polli/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199353|Paratilapia_cf./1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199359|Paratilapia_sp./1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199361|Paratilapia_sp./1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199365|Ptychochromoides_vondro/1-110                                                
58199367|Ptychochromoides_katria/1-110                                                
58199369|Ptychochromis_grandidie/1-110                                                
58199371|Ptychochromis_inornatus/1-110                                                
58199373|Ptychochromis_oligacant/1-110                                                
58199375|Ptychochromis_oligacant/1-110                                                
161376340|Taenionema_palladium/1-127                                                
161376260|Isoperla_phalerata/1-126                                                
161376272|Pictetiella_expansa/1-126                                                
161376298|Agnetina_capitata/1-126                                                
161376266|Isogenoides_zionensis/1-125                                                
58199377|Ptychochromis_sp./1-110                                                
58199381|Ptychochromis_sp./1-110                                                
58199385|Acaronia_nassa/1-110                                                
58199401|Nandopsis_ramsdeni/1-110                                                
58199422|Haplochromis_simpsoni/1-110                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199351|Oxylapia_polli/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199353|Paratilapia_cf./1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199359|Paratilapia_sp./1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199361|Paratilapia_sp./1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199365|Ptychochromoides_vondro/1-110                                                
58199367|Ptychochromoides_katria/1-110                                                
58199369|Ptychochromis_grandidie/1-110                                                
58199371|Ptychochromis_inornatus/1-110                                                
58199373|Ptychochromis_oligacant/1-110                                                
58199375|Ptychochromis_oligacant/1-110                                                
161376340|Taenionema_palladium/1-127                                                
161376260|Isoperla_phalerata/1-126                                                
161376272|Pictetiella_expansa/1-126                                                
161376298|Agnetina_capitata/1-126                                                
161376266|Isogenoides_zionensis/1-125                                                
58199377|Ptychochromis_sp./1-110                                                
58199381|Ptychochromis_sp./1-110                                                
58199385|Acaronia_nassa/1-110                                                
58199401|Nandopsis_ramsdeni/1-110                                                
58199422|Haplochromis_simpsoni/1-110                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199424|Haplochromis_sp./1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199428|Neolamprologus_brichard/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199436|Pelvicachromis_pulcher/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199438|Maylandia_zebra/1-110                                                                                                                                                                                                                                                                                                                                
68013027|Niphon_spinosus/1-110                                                                                                                                                                                                                                                                                
70609132|Chlorophthalmus_agassiz/1-110                                                                                                                                                                                                                                                                
70609142|Lota_lota/1-110                                                                                                                                                                                                                                                                
70609144|Lepophidium_profundorum/1-110                                                                                                                                                                                                                                                                
70609146|Antennarius_avalonis/1-110                                                                                                                                                                                                                                                                
70609150|Rondeletia_loricata/1-110                                                                                                                                                                                                                                                                
70609156|Brama_japonica/1-110                                                                                                                                                                                                                                                                
70609158|Trachinotus_ovatus/1-110                                                                                                                                                                                                                                                                
70609160|Carangoides_malabaricus/1-110                                                                                                                                                                                                                                                                
70609164|Cepola_macrophthalma/1-110                                                                                                                                                                                                                                                                
70609166|Cepola_pauciradiata/1-110                                                                                                                                                                                                                                                                
70609170|Diapterus_auratus/1-110                                                                                                                                                                                                                                                                
70609174|Mene_maculata/1-110                                                                                                                                                                                                                                                                
70609176|Nematistius_pectoralis/1-110                                                                                                                                                                                                                                                                
70609178|Scomber_scombrus/1-110                                                                                                                                                                                                                                                                
70609202|Gazza_squamiventralis/1-110                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199424|Haplochromis_sp./1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199428|Neolamprologus_brichard/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199436|Pelvicachromis_pulcher/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58199438|Maylandia_zebra/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
68013027|Niphon_spinosus/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609132|Chlorophthalmus_agassiz/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609142|Lota_lota/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609144|Lepophidium_profundorum/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609146|Antennarius_avalonis/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609150|Rondeletia_loricata/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609156|Brama_japonica/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609158|Trachinotus_ovatus/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609160|Carangoides_malabaricus/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609164|Cepola_macrophthalma/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609166|Cepola_pauciradiata/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609170|Diapterus_auratus/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609174|Mene_maculata/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609176|Nematistius_pectoralis/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609178|Scomber_scombrus/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609202|Gazza_squamiventralis/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609208|Leiognathus_sp./1-110
70609210|Leiognathus_sp./1-110
70609212|Leiognathus_sp./1-110
70609214|Leiognathus_sp./1-110
70609216|Leiognathus_sp./1-110
70609218|Leiognathus_equulus/1-110
70609234|Leiognathus_robustus/1-110
70609238|Leiognathus_sp./1-110
161376264|Calliperla_luctuosa/1-126
161376304|Dinocras_cephalotes/1-126
161376182|Dinotoperla_sp./1-125
70609240|Leiognathus_daura/1-110
70609244|Nuchequula_decora/1-110
70609250|Leiognathus_dussumieri/1-110
70609252|Nuchequula_nuchalis/1-110
70609258|Eubleekeria_splendens/1-110
70609262|Photopectoralis_sp./1-110
70609270|Equulites_sp./1-110
70609272|Equulites_elongatus/1-110
70609274|Equulites_leuciscus/1-110
consensus
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logo
70609208|Leiognathus_sp./1-110
70609210|Leiognathus_sp./1-110
70609212|Leiognathus_sp./1-110
70609214|Leiognathus_sp./1-110
70609216|Leiognathus_sp./1-110
70609218|Leiognathus_equulus/1-110
70609234|Leiognathus_robustus/1-110
70609238|Leiognathus_sp./1-110
161376264|Calliperla_luctuosa/1-126
161376304|Dinocras_cephalotes/1-126
161376182|Dinotoperla_sp./1-125
70609240|Leiognathus_daura/1-110
70609244|Nuchequula_decora/1-110
70609250|Leiognathus_dussumieri/1-110
70609252|Nuchequula_nuchalis/1-110
70609258|Eubleekeria_splendens/1-110
70609262|Photopectoralis_sp./1-110
70609270|Equulites_sp./1-110
70609272|Equulites_elongatus/1-110
70609274|Equulites_leuciscus/1-110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
70609280|Equulites_lineolatus/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
70609282|Equulites_rivulatus/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
70609284|Equulites_stercorarius/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
70609286|Secutor_sp./1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
70609292|Secutor_indicius/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
70609296|Secutor_cf./1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
70609298|Secutor_megalolepis/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109134770|Lophops_sp./1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159020|Acanthurus_japonicus/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159024|Agonostomus_telfairii/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159026|Allenbatrachus_grunnie/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159028|Ambassis_productus/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159030|Ambloplites_rupestris/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159034|Ammodytes_americanus/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159036|Apogon_atradorsatus/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159046|Canthidermis_maculata/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159048|Capros_aper/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159054|Centropomus_viridis/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159060|Channa_micropeltes/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159066|Cheimarrichthys_foster/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
consensus                           ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

70609280|Equulites_lineolatus/1-110  ..............................  110
70609282|Equulites_rivulatus/1-110  ..............................  110
70609284|Equulites_stercorarius/1-110  ..............................  110
70609286|Secutor_sp./1-110  ..............................  110
70609292|Secutor_indicius/1-110  ..............................  110
70609296|Secutor_cf./1-110  ..............................  110
70609298|Secutor_megalolepis/1-110  ..............................  110
109134770|Lophops_sp./1-110  ..............................  110
109159020|Acanthurus_japonicus/1-110  ..............................  110
109159024|Agonostomus_telfairii/1-110  ..............................  110
109159026|Allenbatrachus_grunnie/1-110  ..............................  110
109159028|Ambassis_productus/1-110  ..............................  110
109159030|Ambloplites_rupestris/1-110  ..............................  110
109159034|Ammodytes_americanus/1-110  ..............................  110
109159036|Apogon_atradorsatus/1-110  ..............................  110
109159046|Canthidermis_maculata/1-110  ..............................  110
109159048|Capros_aper/1-110  ..............................  110
109159054|Centropomus_viridis/1-110  ..............................  110
109159060|Channa_micropeltes/1-110  ..............................  110
109159066|Cheimarrichthys_foster/1-110  ..............................  110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
109159070|Chologaster_cornuta/1-110          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159072|Cookeolus_japonicus/1-110            .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159078|Dactyloptena_orientali/1-110          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159094|Echeneis_naucrates/1-110             .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
161376178|Illiesoperla_australis/1-125          ...............WLVSKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
109159096|Ecsenius_bicolor/1-110               .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159100|Eleutheronema_tetradac/1-110          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159112|Gillellus_semicinctus/1-110           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159124|Icichthys_lockingtoni/1-110           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159128|Indostomus_paradoxus/1-110            .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159132|Jordanella_floridae/1-110             .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159134|Kali_macrura/1-110                    .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159136|Kurtus_gulliveri/1-110                .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159146|Lesueurina_platycephal/1-110          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159150|Limnichthys_fasciatus/1-110           .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159154|Lophiodes_spilurus/1-110              .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159156|Lopholatilus_chamaeleo/1-110          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159162|Malakichthys_griseus/1-110            .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159166|Medialuna_californiens/1-110          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159170|Meiacanthus_oualanensi/1-110          .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
consensus                                        ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

109159070|Chologaster_cornuta/1-110          ..............................     110
109159072|Cookeolus_japonicus/1-110            ..............................     110
109159078|Dactyloptena_orientali/1-110          ..............................     110
109159094|Echeneis_naucrates/1-110             ..............................     110
161376178|Illiesoperla_australis/1-125          VTIMAKDI......................     125
109159096|Ecsenius_bicolor/1-110               ..............................     110
109159100|Eleutheronema_tetradac/1-110          ..............................     110
109159112|Gillellus_semicinctus/1-110           ..............................     110
109159124|Icichthys_lockingtoni/1-110           ..............................     110
109159128|Indostomus_paradoxus/1-110            ..............................     110
109159132|Jordanella_floridae/1-110             ..............................     110
109159134|Kali_macrura/1-110                    ..............................     110
109159136|Kurtus_gulliveri/1-110                ..............................     110
109159146|Lesueurina_platycephal/1-110          ..............................     110
109159150|Limnichthys_fasciatus/1-110           ..............................     110
109159154|Lophiodes_spilurus/1-110              ..............................     110
109159156|Lopholatilus_chamaeleo/1-110          ..............................     110
109159162|Malakichthys_griseus/1-110            ..............................     110
109159166|Medialuna_californiens/1-110          ..............................     110
109159170|Meiacanthus_oualanensi/1-110          ..............................     110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
109159172|Melamphaes_lugubris/1-110      .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159174|Merluccius_productus/1-110      .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159176|Microcanthus_strigatus/1-110   .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159180|Monodactylus_argenteus/1-110   .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159196|Ogcocephalus_nasutus/1-110     .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159200|Oneirodes_sp./1-110            .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159202|Opistognathus_aurifron/1-110   .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159204|Oplegnathus_woodwardi/1-110    .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159206|Opsanus_beta/1-110             .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159208|Ostracion_cubicus/1-110         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159210|Pachypanchax_playfairi/1-110   .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159218|Paralichthys_albigutta/1-110   .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159222|Pentapodus_caninus/1-110       .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159224|Peprilus_alepidotus/1-110      .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159226|Perulibatrachus_elmine/1-110   .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159232|Polydactylus_approxima/1-110   .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159236|Polyprion_americanus/1-110     .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
109159242|Pristipomoides_aquilon/1-110   .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
195362893|Drosophila_sechellia/1-136    ...............MARTKQNARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
109159248|Pseudochromis_flaviver/1-110   .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
consensus                                                     ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

109159172|Melamphaes_lugubris/1-110      ..............................     110
109159174|Merluccius_productus/1-110      ..............................     110
109159176|Microcanthus_strigatus/1-110   ..............................     110
109159180|Monodactylus_argenteus/1-110   ..............................     110
109159196|Ogcocephalus_nasutus/1-110     ..............................     110
109159200|Oneirodes_sp./1-110            ..............................     110
109159202|Opistognathus_aurifron/1-110   ..............................     110
109159204|Oplegnathus_woodwardi/1-110    ..............................     110
109159206|Opsanus_beta/1-110             ..............................     110
109159208|Ostracion_cubicus/1-110         ..............................     110
109159210|Pachypanchax_playfairi/1-110   ..............................     110
109159218|Paralichthys_albigutta/1-110   ..............................     110
109159222|Pentapodus_caninus/1-110       ..............................     110
109159224|Peprilus_alepidotus/1-110      ..............................     110
109159226|Perulibatrachus_elmine/1-110   ..............................     110
109159232|Polydactylus_approxima/1-110   ..............................     110
109159236|Polyprion_americanus/1-110     ..............................     110
109159242|Pristipomoides_aquilon/1-110   ..............................     110
195362893|Drosophila_sechellia/1-136    VTIMPKDIQLARRIRGERA.............     136
109159248|Pseudochromis_flaviver/1-110   ..............................     110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
109159256|Ratsirakia_legendrei/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159258|Regalecus_glesne/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159270|Scophthalmus_aquosus/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159281|Sphyraena_idiastes/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159283|Sphyraena_sphyraena/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159285|Stegastes_nigricans/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159289|Sander_vitreus/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159291|Synchiropus_ocellatus/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159301|Triacanthodes_anomalus/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
109159317|Variola_louti/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
110555241|Massagris_cf./1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
148372389|Etheostoma_nigrum/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
148372391|Percina_caprodes/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
148372393|Zingel_streber/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
148372395|Gracila_albomarginata/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
148372439|Centropomus_medius/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
148372441|Centrarchops_chapini/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
148372443|Dinoperca_petersi/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
148372445|Epigonus_constanciae/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
148372447|Datnioides_polota/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
consensus                                                                                ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

109159256|Ratsirakia_legendrei/1-110  ..............................  110
109159258|Regalecus_glesne/1-110  ..............................  110
109159270|Scophthalmus_aquosus/1-110  ..............................  110
109159281|Sphyraena_idiastes/1-110  ..............................  110
109159283|Sphyraena_sphyraena/1-110  ..............................  110
109159285|Stegastes_nigricans/1-110  ..............................  110
109159289|Sander_vitreus/1-110  ..............................  110
109159291|Synchiropus_ocellatus/1-110  ..............................  110
109159301|Triacanthodes_anomalus/1-110  ..............................  110
109159317|Variola_louti/1-110  ..............................  110
110555241|Massagris_cf./1-110  ..............................  110
148372389|Etheostoma_nigrum/1-110  ..............................  110
148372391|Percina_caprodes/1-110  ..............................  110
148372393|Zingel_streber/1-110  ..............................  110
148372395|Gracila_albomarginata/1-110  ..............................  110
148372439|Centropomus_medius/1-110  ..............................  110
148372441|Centrarchops_chapini/1-110  ..............................  110
148372443|Dinoperca_petersi/1-110  ..............................  110
148372445|Epigonus_constanciae/1-110  ..............................  110
148372447|Datnioides_polota/1-110  ..............................  110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                   4 ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                       3                                                                                                                                                 3
                                                       2                                                                                                                                                 2
                                                       1                                                                                                                                                 1

148372451|Morone_americana/1-110                       ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
148372455|Gadopsis_marmoratus/1-110                    ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
148372459|Nannoperca_australis/1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
148372463|Polyprion_oxygeneios/1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
148372465|Priacanthus_arenatus/1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
156958854|Tribolium_castaneum/1-110                   ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
156958856|Tribolium_freemani/1-110                    ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
156958858|Tribolium_madens/1-110                      ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
156958860|Tribolium_confusum/1-110                    ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
156958864|Gnathocerus_cornutus/1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
156958868|Tenebrio_molitor/1-110                      ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
158829292|Crypticerya_brasiliens/1-110                ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
61677513|Haliotis_varia/1-125                         ...............MAXTKXXARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
158829294|Crypticerya_sp./1-110                       ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
158829296|Crypticerya_zeteki/1-110                    ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
158829298|Crypticerya_montserrat/1-110               ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
158829300|Crypticerya_pimentae/1-110                 ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
158829304|Crypticerya_sp./1-110                       ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
158829306|Crypticerya_morrilli/1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
158829308|Crypticerya_tabernicol/1-110               ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
consensus                                                                  ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                   4                                 4
                                                       3                                 3
                                                       2                                 2
                                                       1                                 1

148372451|Morone_americana/1-110                       ..............................    110
148372455|Gadopsis_marmoratus/1-110                    ..............................    110
148372459|Nannoperca_australis/1-110                  ..............................    110
148372463|Polyprion_oxygeneios/1-110                  ..............................    110
148372465|Priacanthus_arenatus/1-110                  ..............................    110
156958854|Tribolium_castaneum/1-110                   ..............................    110
156958856|Tribolium_freemani/1-110                    ..............................    110
156958858|Tribolium_madens/1-110                      ..............................    110
156958860|Tribolium_confusum/1-110                    ..............................    110
156958864|Gnathocerus_cornutus/1-110                  ..............................    110
156958868|Tenebrio_molitor/1-110                      ..............................    110
158829292|Crypticerya_brasiliens/1-110                ..............................    110
61677513|Haliotis_varia/1-125                         VTIMPKDI......................    125
158829294|Crypticerya_sp./1-110                       ..............................    110
158829296|Crypticerya_zeteki/1-110                    ..............................    110
158829298|Crypticerya_montserrat/1-110                ..............................    110
158829300|Crypticerya_pimentae/1-110                  ..............................    110
158829304|Crypticerya_sp./1-110                       ..............................    110
158829306|Crypticerya_morrilli/1-110                  ..............................    110
158829308|Crypticerya_tabernicol/1-110                ..............................    110
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158829310|Crypticerya_rileyi/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
158829312|Crypticerya_genistae/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
158829321|Gigantococcus_albolute/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
158829323|Gigantococcus_euphorbi/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
158829325|Icerya_callitri/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
158829327|Icerya_imperatae/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
158829329|Icerya_purchasi/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
158829331|Icerya_samaraia/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
158829333|Icerya_acaciae/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
158829335|Icerya_nudata/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
158829337|Icerya_jaihind/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
158829339|Icerya_zimmermanni/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
158829343|Icerya_assamensis/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
158829347|Icerya_seychellarum/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
158829349|Icerya_pilosa/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
208479632|Micrometrus_minimus/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
208479634|Haplochromis_burtoni/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
208479638|Sarotherodon_lohberger/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
208479644|Aequidens_pulcher/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
208479646|Aequidens_rivulatus/1-110 ..................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
consensus                                               ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

158829310|Crypticerya_rileyi/1-110 ..................................  110
158829312|Crypticerya_genistae/1-110 ..................................  110
158829321|Gigantococcus_albolute/1-110 ..................................  110
158829323|Gigantococcus_euphorbi/1-110 ..................................  110
158829325|Icerya_callitri/1-110 ..................................  110
158829327|Icerya_imperatae/1-110 ..................................  110
158829329|Icerya_purchasi/1-110 ..................................  110
158829331|Icerya_samaraia/1-110 ..................................  110
158829333|Icerya_acaciae/1-110 ..................................  110
158829335|Icerya_nudata/1-110 ..................................  110
158829337|Icerya_jaihind/1-110 ..................................  110
158829339|Icerya_zimmermanni/1-110 ..................................  110
158829343|Icerya_assamensis/1-110 ..................................  110
158829347|Icerya_seychellarum/1-110 ..................................  110
158829349|Icerya_pilosa/1-110 ..................................  110
208479632|Micrometrus_minimus/1-110 ..................................  110
208479634|Haplochromis_burtoni/1-110 ..................................  110
208479638|Sarotherodon_lohberger/1-110 ..................................  110
208479644|Aequidens_pulcher/1-110 ..................................  110
208479646|Aequidens_rivulatus/1-110 ..................................  110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                 3
                                                      2                                                                                                                                                 2
                                                      1                                                                                                                                                 1
208479650|Cleithracara_maronii/1-110                  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
208479652|Krobia_sp./1-110                            ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
208479654|Laetacara_thayeri/1-110                    ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
208479662|Biotoecus_dicentrarchu/1-110                ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
208479688|Heros_appendiculatus/1-110                 ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
208479690|Hoplarchus_psittacus/1-110                 ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
161376274|Hydroperla_crosbyi/1-126                  ..............MARIKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
208479694|Mesonauta_festivus/1-110                   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
208479696|Uaru_amphiacanthoides/1-110                ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
238683772|Chlamys_behringiana/1-110                  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
240015298|Pseudosaldula_sp./1-110                   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
240015300|Pseudosaldula_bergi/1-110                  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
240015302|Pseudosaldula_sp./1-110                   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
240015310|Pseudosaldula_sp./1-110                   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
240015312|Salda_sp./1-110                            ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
240015314|Saldula_ablusa/1-110                       ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
240155935|Plectrochilus_sp./1-110                    ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
240155939|Vandellia_cirrhosa/1-110                   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
264667475|Locusta_migratoria/1-110                   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
264667508|Eyprepocnemis_plorans/1-110                ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
consensus                                             ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4                                 4
                                                      3                                 3
                                                      2                                 2
                                                      1                                 1
208479650|Cleithracara_maronii/1-110                  ..............................    110
208479652|Krobia_sp./1-110                            ..............................    110
208479654|Laetacara_thayeri/1-110                    ..............................    110
208479662|Biotoecus_dicentrarchu/1-110                ..............................    110
208479688|Heros_appendiculatus/1-110                 ..............................    110
208479690|Hoplarchus_psittacus/1-110                 ..............................    110
161376274|Hydroperla_crosbyi/1-126                  VTIMPQGYI.....................    126
208479694|Mesonauta_festivus/1-110                   ..............................    110
208479696|Uaru_amphiacanthoides/1-110                ..............................    110
238683772|Chlamys_behringiana/1-110                  ..............................    110
240015298|Pseudosaldula_sp./1-110                   ..............................    110
240015300|Pseudosaldula_bergi/1-110                  ..............................    110
240015302|Pseudosaldula_sp./1-110                   ..............................    110
240015310|Pseudosaldula_sp./1-110                   ..............................    110
240015312|Salda_sp./1-110                            ..............................    110
240015314|Saldula_ablusa/1-110                       ..............................    110
240155935|Plectrochilus_sp./1-110                    ..............................    110
240155939|Vandellia_cirrhosa/1-110                   ..............................    110
264667475|Locusta_migratoria/1-110                   ..............................    110
264667508|Eyprepocnemis_plorans/1-110                ..............................    110
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                 4 ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                     3                                                                                                                                                 3
                                                     2                                                                                                                                                 2
                                                     1                                                                                                                                                 1
300248311|Caloscarta_sp./1-110                       .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
310770416|Aristeus_sp./1-110                         .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
310770418|Coenobita_perlatus/1-110                   .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
310770420|Glyphocrangon_armata/1-110                 .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
310770422|Heterocarpus_parvispin/1-110               .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
310770424|Munida_acantha/1-110                       .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
310770426|Neoglyphea_inopinata/1-110                 .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
310770428|Laurentaeglyphea_neoca/1-110               .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
310770430|Nephropsis_sp./1-110                       .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
310770432|Plesionika_scopifera/1-110                 .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
310770434|Polycheles_enthrix/1-110                   .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
310770436|Puerulus_angulatus/1-110                   .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
310770438|Thaumastocheles_japoni/1-110               .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
4883735|Euperipatoides_leuckarti/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
4883742|Hanseniella_sp./1-109                        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
4883750|Allomachilis_froggarti/1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
4883761|Equitius_sp./1-109                           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
15986555|Limulus_polyphemus/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
15986557|Carcinoscorpius_rotundi/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
15986563|Locusta_migratoria/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                            *RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                 4                                 4
                                                     3                                 3
                                                     2                                 2
                                                     1                                 1
300248311|Caloscarta_sp./1-110                       ...............................     110
310770416|Aristeus_sp./1-110                         ...............................     110
310770418|Coenobita_perlatus/1-110                   ...............................     110
310770420|Glyphocrangon_armata/1-110                 ...............................     110
310770422|Heterocarpus_parvispin/1-110               ...............................     110
310770424|Munida_acantha/1-110                       ...............................     110
310770426|Neoglyphea_inopinata/1-110                 ...............................     110
310770428|Laurentaeglyphea_neoca/1-110               ...............................     110
310770430|Nephropsis_sp./1-110                       ...............................     110
310770432|Plesionika_scopifera/1-110                 ...............................     110
310770434|Polycheles_enthrix/1-110                   ...............................     110
310770436|Puerulus_angulatus/1-110                   ...............................     110
310770438|Thaumastocheles_japoni/1-110               ...............................     110
4883735|Euperipatoides_leuckarti/1-109               ...............................     109
4883742|Hanseniella_sp./1-109                        ...............................     109
4883750|Allomachilis_froggarti/1-109                 ...............................     109
4883761|Equitius_sp./1-109                           ...............................     109
15986555|Limulus_polyphemus/1-109                    ...............................     109
15986557|Carcinoscorpius_rotundi/1-109               ...............................     109
15986563|Locusta_migratoria/1-109                    ...............................     109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040912|Callobius_sp./1-121                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040884|Callobius_arizonicus/1-124                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
15986567|Homarus_americanus/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
21238530|Bolyphantes_alticeps/1-109                                                                                                                                                                                                                                                                                
21238532|Orsonwelles_polites/1-109                                                                                                                                                                                
21238534|Linyphia_triangularis/1-109                                                                                
21238536|Frontinella_communis/1-109                                                                
21238542|Neriene_variabilis/1-109                                                
21238544|Labulla_thoracica/1-109                                                
21238546|Orsonwelles_malus/1-109                                                
21238548|Neriene_radiata/1-109                                                
30725192|Argonemertes_australien/1-109                                                
30725194|Amphiporus_sp./1-109                                                
30725196|Sipunculus_sp./1-109                                                
30725198|Siphonosoma_cumanense/1-109                                                
30725200|Phascolopsis_gouldii/1-109                                                
30725202|Golfingia_elongata/1-109                                                
30725204|Golfingia_muricaudata/1-109                                                
30725210|Themiste_lageniformis/1-109                                                
30725212|Themiste_minor/1-109                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040912|Callobius_sp./1-121                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040884|Callobius_arizonicus/1-124                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
15986567|Homarus_americanus/1-109                                                                                                                                                                                                                                                                                                                                
21238530|Bolyphantes_alticeps/1-109                                                                                                                                                                                                                                                                                
21238532|Orsonwelles_polites/1-109                                                                                                                                                                                
21238534|Linyphia_triangularis/1-109                                                                                
21238536|Frontinella_communis/1-109                                                                
21238542|Neriene_variabilis/1-109                                                
21238544|Labulla_thoracica/1-109                                                
21238546|Orsonwelles_malus/1-109                                                
21238548|Neriene_radiata/1-109                                                
30725192|Argonemertes_australien/1-109                                                
30725194|Amphiporus_sp./1-109                                                
30725196|Sipunculus_sp./1-109                                                
30725198|Siphonosoma_cumanense/1-109                                                
30725200|Phascolopsis_gouldii/1-109                                                
30725202|Golfingia_elongata/1-109                                                
30725204|Golfingia_muricaudata/1-109                                                
30725210|Themiste_lageniformis/1-109                                                
30725212|Themiste_minor/1-109                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 MAXTKQTA RK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
30725216|Phascolosoma_noduliferu/1-109                 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
30725218|Phascolosoma_perlucens/1-109                   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
30725220|Phascolosoma_stephenson/1-109                 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
30725224|Phascolosoma_scolops/1-109                    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
30725228|Antillesoma_antillarum/1-109                  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
157783361|Kaindipsocus_sp./1-110                       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
157783363|Cerastipsocus_trifasci/1-110                 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
157783369|Psococerastis_sp./1-110                      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
157783371|Metylophorus_novaescot/1-110                 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
157783373|Metylophorus_purus/1-110                     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
157783375|Atrichadenotecnum_sp./1-110                  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
157783383|Hyalopsocus_floridanus/1-110                 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
157783385|Hyalopsocus_sp./1-110                        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
157783387|Psocus_bipunctatus/1-110                     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
157783389|Psocus_crosbyi/1-110                         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
150247929|Gonypetyllis_semuncial/1-125                ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
226597098|Cybaeota_nana/1-125                          ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
226597100|Cybaeus_shoshoneus/1-125                    ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
226597102|Cybaeus_patritus/1-125                      ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
226597104|Cybaeus_giganteus/1-125                     ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 117
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4 V 4
                                                      3 T 3
                                                      2 I 2
                                                      1 MPKDI 1
30725216|Phascolosoma_noduliferu/1-109                 ..............................  109
30725218|Phascolosoma_perlucens/1-109                  ..............................  109
30725220|Phascolosoma_stephenson/1-109                 ..............................  109
30725224|Phascolosoma_scolops/1-109                    ..............................  109
30725228|Antillesoma_antillarum/1-109                  ..............................  109
157783361|Kaindipsocus_sp./1-110                       V.............................  110
157783363|Cerastipsocus_trifasci/1-110                 V.............................  110
157783369|Psococerastis_sp./1-110                      V.............................  110
157783371|Metylophorus_novaescot/1-110                 V.............................  110
157783373|Metylophorus_purus/1-110                     V.............................  110
157783375|Atrichadenotecnum_sp./1-110                  V.............................  110
157783383|Hyalopsocus_floridanus/1-110                 V.............................  110
157783385|Hyalopsocus_sp./1-110                        V.............................  110
157783387|Psocus_bipunctatus/1-110                     V.............................  110
157783389|Psocus_crosbyi/1-110                         V.............................  110
150247929|Gonypetyllis_semuncial/1-125                 VTIMPKDI......................  125
226597098|Cybaeota_nana/1-125                          VTIMPKDI......................  125
226597100|Cybaeus_shoshoneus/1-125                     VTIMPKDI......................  125
226597102|Cybaeus_patritus/1-125                       VTIMPKDI......................  125
226597104|Cybaeus_giganteus/1-125                      VTIMPKDI......................  125
consensus                                              *
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
226597108|Cybaeus_angustarium/1-125  ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
226597110|Cybaeus_signifer/1-125  ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
226597116|Cybaeus_morosus/1-125  ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
226597118|Cybaeus_paralypropriap/1-125  ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
226597122|Cybaeus_waynei/1-125  ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
226597124|Cybaeus_gidneyi/1-125  ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
226597130|Cybaeus_vulpinus/1-125  ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
226597136|Cybaeus_somesbar/1-125  ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
226597134|Cybaeus_penedentatus/1-125  ...............XAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
297040746|Callobius_paskenta/1-124  ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
297040814|Callobius_severus/1-124  ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
297040878|Callobius_sp./1-124  ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
297040904|Callobius_sp./1-123  ................AXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  116
297040914|Callobius_sp./1-123  ................AXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  116
157783391|Atlantopsocus_personat/1-110  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
157783395|Copostigma_sp./1-110  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
157783397|Indiopsocus_bisignatus/1-110  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
157783401|Loensia_moesta/1-110  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
157783403|Loensia_variegata/1-110  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
157783405|Loensia_conspersa/1-110  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                                                 ********RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

226597108|Cybaeus_angustarium/1-125  VTIMPKDI.......................  125
226597110|Cybaeus_signifer/1-125  VTIMPKDI.......................  125
226597116|Cybaeus_morosus/1-125  VTIMPKDI.......................  125
226597118|Cybaeus_paralypropriap/1-125  VTIMPKDI.......................  125
226597122|Cybaeus_waynei/1-125  VTIMPKDI.......................  125
226597124|Cybaeus_gidneyi/1-125  VTIMPKDI.......................  125
226597130|Cybaeus_vulpinus/1-125  VTIMPKDI.......................  125
226597136|Cybaeus_somesbar/1-125  VTIMPKDI.......................  125
226597134|Cybaeus_penedentatus/1-125  VTIMPKDI.......................  125
297040746|Callobius_paskenta/1-124  VTIMPKD........................  124
297040814|Callobius_severus/1-124  VTIMPKD........................  124
297040878|Callobius_sp./1-124  VTIMPKD........................  124
297040904|Callobius_sp./1-123  VTIMPKD........................  123
297040914|Callobius_sp./1-123  VTIMPKD........................  123
157783391|Atlantopsocus_personat/1-110  V.............................  110
157783395|Copostigma_sp./1-110  V.............................  110
157783397|Indiopsocus_bisignatus/1-110  V.............................  110
157783401|Loensia_moesta/1-110  V.............................  110
157783403|Loensia_variegata/1-110  V.............................  110
157783405|Loensia_conspersa/1-110  V.............................  110
consensus                         V******

X   non conserved
X   similar
X   ≥ 50% conserved
X   ≥ 80% conserved
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157783407|Oreopsocus_buholzeri/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157783409|Psocidus_sp./1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157783411|Psocomesites_sp./1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157783413|Ptycta_johnsoni/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157783415|Steleops_elegans/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157783427|Trichadenotecnum_desol/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157783429|Thyrsophorus_sp./1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
240155916|Trichomycterus_cf./1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296124949|Lepium_sp./1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296124951|Archipsocus_sp./1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296124953|Epipsocus_sp./1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296124955|Goja_sp./1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296124961|Philotarsus_kwakiutl/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296124963|Calopsocus_furcatus/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296124965|Phallocaecilius_hirsut/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296124967|Pseudocaecilius_citric/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296124971|Ectopsocopsis_cryptome/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296124977|Anomopsocus_amabilis/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296124981|Eolachesilla_chilensis/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296124983|Kilauella_sp./1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                           RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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157783407|Oreopsocus_buholzeri/1-110   V.............................   110
157783409|Psocidus_sp./1-110   V.............................   110
157783411|Psocomesites_sp./1-110   V.............................   110
157783413|Ptycta_johnsoni/1-110   V.............................   110
157783415|Steleops_elegans/1-110   V.............................   110
157783427|Trichadenotecnum_desol/1-110   V.............................   110
157783429|Thyrsophorus_sp./1-110   V.............................   110
240155916|Trichomycterus_cf./1-110   V.............................   110
296124949|Lepium_sp./1-110   V.............................   110
296124951|Archipsocus_sp./1-110   V.............................   110
296124953|Epipsocus_sp./1-110   V.............................   110
296124955|Goja_sp./1-110   V.............................   110
296124961|Philotarsus_kwakiutl/1-110   V.............................   110
296124963|Calopsocus_furcatus/1-110   V.............................   110
296124965|Phallocaecilius_hirsut/1-110   V.............................   110
296124967|Pseudocaecilius_citric/1-110   V.............................   110
296124971|Ectopsocopsis_cryptome/1-110   V.............................   110
296124977|Anomopsocus_amabilis/1-110   V.............................   110
296124981|Eolachesilla_chilensis/1-110   V.............................   110
296124983|Kilauella_sp./1-110   V.............................   110
consensus                           V
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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296124985|Asiopsocus_sp./1-110                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296124987|Amphipsocus_japonicus/1-110            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296124989|Calocaecilius_decipien/1-110           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296124991|Kolbia_fusconervosa/1-110              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296124993|Polypsocus_corruptus/1-110             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296124997|Graphopsocus_cruciatus/1-110           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296124999|Stenopsocus_aphidiform/1-110           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
109134704|Cedusa_sp./1-112                      ....................PARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
296125001|Stenopsocus_nigricellu/1-110           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296125003|Fuelleborniella_sp./1-110               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296125005|Pericaecilius_sp./1-110                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296125007|Dypsocus_coleoptratus/1-110             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296125009|Isophanes_sp./1-110                    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296125011|Valenzuela_flavidus/1-110               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296125031|Laemobothrion_cubense/1-110             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296125037|Campanulotes_bidentatu/1-110            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296125045|Pediculus_humanus/1-110                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296125047|Haematomyzus_elephanti/1-110            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296125049|Neopsittaconirmus_eos/1-110             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296125051|Degeeriella_sp./1-110                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                          RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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296124985|Asiopsocus_sp./1-110                  V.............................     110
296124987|Amphipsocus_japonicus/1-110            V.............................     110
296124989|Calocaecilius_decipien/1-110           V.............................     110
296124991|Kolbia_fusconervosa/1-110              V.............................     110
296124993|Polypsocus_corruptus/1-110             V.............................     110
296124997|Graphopsocus_cruciatus/1-110           V.............................     110
296124999|Stenopsocus_aphidiform/1-110           V.............................     110
109134704|Cedusa_sp./1-112                       V.............................     112
296125001|Stenopsocus_nigricellu/1-110           V.............................     110
296125003|Fuelleborniella_sp./1-110               V.............................     110
296125005|Pericaecilius_sp./1-110                 V.............................     110
296125007|Dypsocus_coleoptratus/1-110             V.............................     110
296125009|Isophanes_sp./1-110                     V.............................     110
296125011|Valenzuela_flavidus/1-110               V.............................     110
296125031|Laemobothrion_cubense/1-110             V.............................     110
296125037|Campanulotes_bidentatu/1-110            V.............................     110
296125045|Pediculus_humanus/1-110                 V.............................     110
296125047|Haematomyzus_elephanti/1-110            V.............................     110
296125049|Neopsittaconirmus_eos/1-110             V.............................     110
296125051|Degeeriella_sp./1-110                   V.............................     110
consensus                                          V
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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                                                                                                                                                                                                                                                                                                                                              
30725230|Aspidosiphon_misakiensi/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
30725232|Aspidosiphon_laevis/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
30725234|Aspidosiphon_parvulus/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
30725236|Aspidosiphon_steenstrup/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086706|Argiope_argentata/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086708|Alaranea_merina/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086710|Mysmena_sp./1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086712|Nesticus_sp./1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086714|Pimoa_sp./1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086716|Synotaxus_sp./1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086718|Tetragnatha_mandibulata/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086720|Theridiosoma_gemmosum/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086722|Parasteatoda_tepidarior/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086724|Ameridion_sp./1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086726|Anelosimus_eximius/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086728|Argyrodes_argentatus/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086730|Ariamnes_attenuata/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086732|Cerocida_strigosa/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086734|Chrosiothes_cf./1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
33086736|Chrysso_sp./1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                                RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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30725230|Aspidosiphon_misakiensi/1-109   ..................................   109
30725232|Aspidosiphon_laevis/1-109   ..................................   109
30725234|Aspidosiphon_parvulus/1-109   ..................................   109
30725236|Aspidosiphon_steenstrup/1-109   ..................................   109
33086706|Argiope_argentata/1-109   ..................................   109
33086708|Alaranea_merina/1-109   ..................................   109
33086710|Mysmena_sp./1-109   ..................................   109
33086712|Nesticus_sp./1-109   ..................................   109
33086714|Pimoa_sp./1-109   ..................................   109
33086716|Synotaxus_sp./1-109   ..................................   109
33086718|Tetragnatha_mandibulata/1-109   ..................................   109
33086720|Theridiosoma_gemmosum/1-109   ..................................   109
33086722|Parasteatoda_tepidarior/1-109   ..................................   109
33086724|Ameridion_sp./1-109   ..................................   109
33086726|Anelosimus_eximius/1-109   ..................................   109
33086728|Argyrodes_argentatus/1-109   ..................................   109
33086730|Ariamnes_attenuata/1-109   ..................................   109
33086732|Cerocida_strigosa/1-109   ..................................   109
33086734|Chrosiothes_cf./1-109   ..................................   109
33086736|Chrysso_sp./1-109   ..................................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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33086738|Keijia_mneon/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
161376180|Eunotoperla_sp./1-126                ...............WLVPKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
33086740|Dipoena_cf./1-109                    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086742|Trigonobothrys_mustelin/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086744|Enoplognatha_caricis/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086746|Episinus_angulatus/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086748|Argyrodes_chickeringi/1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086750|Helvibis_cf./1-109                    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086752|Latrodectus_mactans/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086754|Neottiura_bimaculata/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086756|Argyrodes_trigonum/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086758|Nesticodes_rufipes/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086760|Pholcomma_hirsutum/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086762|Rhomphaea_metalissima/1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086768|Anelosimus_sp./1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086770|Spintharus_flavidus/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086776|Theridion_grallator/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086778|Theridion_varians/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086780|Thwaitesia_sp./1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
33086782|Thymoites_unimaculatus/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                       RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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33086738|Keijia_mneon/1-109                  ..................................     109
161376180|Eunotoperla_sp./1-126               VTIMRQGYI........................     126
33086740|Dipoena_cf./1-109                    ..................................     109
33086742|Trigonobothrys_mustelin/1-109        ..................................     109
33086744|Enoplognatha_caricis/1-109           ..................................     109
33086746|Episinus_angulatus/1-109             ..................................     109
33086748|Argyrodes_chickeringi/1-109          ..................................     109
33086750|Helvibis_cf./1-109                   ..................................     109
33086752|Latrodectus_mactans/1-109            ..................................     109
33086754|Neottiura_bimaculata/1-109           ..................................     109
33086756|Argyrodes_trigonum/1-109             ..................................     109
33086758|Nesticodes_rufipes/1-109             ..................................     109
33086760|Pholcomma_hirsutum/1-109             ..................................     109
33086762|Rhomphaea_metalissima/1-109          ..................................     109
33086768|Anelosimus_sp./1-109                 ..................................     109
33086770|Spintharus_flavidus/1-109            ..................................     109
33086776|Theridion_grallator/1-109            ..................................     109
33086778|Theridion_varians/1-109              ..................................     109
33086780|Thwaitesia_sp./1-109                 ..................................     109
33086782|Thymoites_unimaculatus/1-109         ..................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
37543515|Lepisma_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
37675322|Siphonosoma_vastum/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
37675328|Apionsoma_pectinatum/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
37675332|Lithacrosiphon_cristatu/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
37788201|Loxosomella_murmanica/1-109                                                                                                                                                                                                                                                                                
37788207|Symbion_pandora/1-109                                                                                                                                                                                                                                                                                
37788209|Symbion_sp./1-109                                                                                                                                                                                                                                                                                
37788211|Limnognathia_maerski/1-109                                                                                                                                                                                                                                                                                
37788213|Haplognathia_ruberrima/1-109                                                                                                                                                                                                                                                                                
37788217|Gnathostomula_armata/1-109                                                                                                                                                                                                                                                                                
37788219|Testudinella_sp./1-109                                                                                                                                                                                                                                                                                
37788229|Pomphorhynchus_laevis/1-109                                                                                                                                                                                                                                                                                
38505233|Solemya_velum/1-109                                                                                                                                                                                                                                                                                
38505234|Nucula_sulcata/1-109                                                                                                                                                                                                                                                                                
38505235|Nuculana_pella/1-109                                                                                                                                                                                                                                                                                
61677543|Scissurella_cf./1-123                                                                                                                                                                                                                                                                                
38505236|Yoldia_limatula/1-109                                                                                                                                                                                                                                                                                
38505237|Mytilus_edulis/1-109                                                                                                                                                                                                                                                                                
38505240|Pecten_jacobaeus/1-109                                                                                                                                                                                                                                                                                
38505241|Mimachlamys_varia/1-109                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                
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37543515|Lepisma_sp./1-109                                                                                                                                                                                                                                                                                
37675322|Siphonosoma_vastum/1-109                                                                                                                                                                                                                                                                                
37675328|Apionsoma_pectinatum/1-109                                                                                                                                                                                                                                                                                
37675332|Lithacrosiphon_cristatu/1-109                                                                                                                                                                                                                                                                                
37788201|Loxosomella_murmanica/1-109                                                                                                                                                                                                                                                                                
37788207|Symbion_pandora/1-109                                                                                                                                                                                                                                                                                
37788209|Symbion_sp./1-109                                                                                                                                                                                                                                                                                
37788211|Limnognathia_maerski/1-109                                                                                                                                                                                                                                                                                
37788213|Haplognathia_ruberrima/1-109                                                                                                                                                                                                                                                                                
37788217|Gnathostomula_armata/1-109                                                                                                                                                                                                                                                                                
37788219|Testudinella_sp./1-109                                                                                                                                                                                                                                                                                
37788229|Pomphorhynchus_laevis/1-109                                                                                                                                                                                                                                                                                
38505233|Solemya_velum/1-109                                                                                                                                                                                                                                                                                
38505234|Nucula_sulcata/1-109                                                                                                                                                                                                                                                                                
38505235|Nuculana_pella/1-109                                                                                                                                                                                                                                                                                
61677543|Scissurella_cf./1-123                                                                                                                                                                                                                                                                                
38505236|Yoldia_limatula/1-109                                                                                                                                                                                                                                                                                
38505237|Mytilus_edulis/1-109                                                                                                                                                                                                                                                                                
38505240|Pecten_jacobaeus/1-109                                                                                                                                                                                                                                                                                
38505241|Mimachlamys_varia/1-109                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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38607258|Loligo_pealei/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
38607262|Sepia_elegans/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
40795999|Liriope_tetraphylla/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
40796001|Aurelia_aurita/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
40796003|Branchiostoma_lanceolat/1-109                                                
40796007|Phoronopsis_harmeri/1-109                                                
40796013|Pycnophyes_greenlandicu/1-109                                                
41353837|Balanus_crenatus/1-109                                                
41353839|Balanus_glandula/1-109                                                
61677541|Scissurella_cf./1-125                                                
41353841|Semibalanus_balanoides/1-109                                                
41353843|Semibalanus_cariosus/1-109                                                
41353845|Balanus_balanus/1-109                                                
41353847|Balanus_perforatus/1-109                                                
41353849|Menesiniella_aquila/1-109                                                
41353851|Megabalanus_tintinnabul/1-109                                                
41353853|Megabalanus_californicu/1-109                                                
41353855|Megabalanus_spinosus/1-109                                                
41353857|Austromegabalanus_psitt/1-109                                                
41353859|Elminius_modestus/1-109                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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38607258|Loligo_pealei/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
38607262|Sepia_elegans/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
40795999|Liriope_tetraphylla/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
40796001|Aurelia_aurita/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
40796003|Branchiostoma_lanceolat/1-109                                                
40796007|Phoronopsis_harmeri/1-109                                                
40796013|Pycnophyes_greenlandicu/1-109                                                
41353837|Balanus_crenatus/1-109                                                
41353839|Balanus_glandula/1-109                                                
61677541|Scissurella_cf./1-125                                                
41353841|Semibalanus_balanoides/1-109                                                
41353843|Semibalanus_cariosus/1-109                                                
41353845|Balanus_balanus/1-109                                                
41353847|Balanus_perforatus/1-109                                                
41353849|Menesiniella_aquila/1-109                                                
41353851|Megabalanus_tintinnabul/1-109                                                
41353853|Megabalanus_californicu/1-109                                                
41353855|Megabalanus_spinosus/1-109                                                
41353857|Austromegabalanus_psitt/1-109                                                
41353859|Elminius_modestus/1-109                                                
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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41353861|Elminius_kingii/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353863|Tetraclitella_divisa/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353865|Tetraclitella_purpurasc/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353867|Tetraclita_squamosa/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353869|Tetraclita_japonica/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353871|Chthamalus_stellatus/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353873|Chthamalus_montagui/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353875|Chthamalus_challengeri/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353877|Chthamalus_bisinuatus/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353879|Jehlius_cirratus/1-109                   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353881|Notochthamalus_scabrosu/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353883|Chamaesipho_tasmanica/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353885|Catomerus_polymerus/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353889|Pollicipes_pollicipes/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353891|Pollicipes_polymerus/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353893|Capitulum_mitella/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353895|Litoscalpellum_regina/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353899|Ibla_quadrivalvis/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353901|Sacculina_carcini/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
41353903|Heterosaccus_californic/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                         RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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41353861|Elminius_kingii/1-109                  ..................................     109
41353863|Tetraclitella_divisa/1-109               ..................................     109
41353865|Tetraclitella_purpurasc/1-109            ..................................     109
41353867|Tetraclita_squamosa/1-109                ..................................     109
41353869|Tetraclita_japonica/1-109                ..................................     109
41353871|Chthamalus_stellatus/1-109               ..................................     109
41353873|Chthamalus_montagui/1-109                ..................................     109
41353875|Chthamalus_challengeri/1-109             ..................................     109
41353877|Chthamalus_bisinuatus/1-109              ..................................     109
41353879|Jehlius_cirratus/1-109                   ..................................     109
41353881|Notochthamalus_scabrosu/1-109            ..................................     109
41353883|Chamaesipho_tasmanica/1-109              ..................................     109
41353885|Catomerus_polymerus/1-109                ..................................     109
41353889|Pollicipes_pollicipes/1-109              ..................................     109
41353891|Pollicipes_polymerus/1-109               ..................................     109
41353893|Capitulum_mitella/1-109                  ..................................     109
41353895|Litoscalpellum_regina/1-109              ..................................     109
41353899|Ibla_quadrivalvis/1-109                  ..................................     109
41353901|Sacculina_carcini/1-109                  ..................................     109
41353903|Heterosaccus_californic/1-109            ..................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
45545188|Blattidae_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
45545190|Cryptocercus_punctulatu/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
45545194|Mantis_religiosa/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
61677551|Gibbula_zonata/1-125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
61677553|Stomatella_sp./1-125                                                                                                                                                                                                                                                                                                                                
161376174|Acroperla_trivacauta/1-125                                                                                                                                                                                                                                                                                
161376258|Isoperla_fulva/1-125                                                                                                                                                                                                                                                                                
161376296|Perlinella_drymo/1-125                                                                                                                                                                                                                                                                                
45545198|Acromantis_sp./1-109                                                                                                                                                                                                                                                                                
45545200|Chrysomantis_sp./1-109                                                                                                                                                                                                                                                                                
45545202|Gongylus_gongylodes/1-109                                                                                                                                                                                                                                                                                
45545204|Paraoxypilus_verreauxii/1-109                                                                                                                                                                                                                                                                                
45545206|Mantoida_schraderi/1-109                                                                                                                                                                                                                                                                                
45545208|Hymenopus_coronatus/1-109                                                                                                                                                                                                                                                                                
45545210|Phyllocrania_paradoxa/1-109                                                                                                                                                                                                                                                                                
45545214|Sphodromantis_viridis/1-109                                                                                                                                                                                                                                                                                
45545216|Vates_pectinacornis/1-109                                                                                                                                                                                                                                                                                
45545218|Sphodromantis_lineola/1-109                                                                                                                                                                                                                                                                                
45545220|Choeradodis_rhombicolli/1-109                                                                                                                                                                                                                                                                                
45545222|Pseudocreobotra_occella/1-109                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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logo
45545188|Blattidae_sp./1-109
45545190|Cryptocercus_punctulatu/1-109
45545194|Mantis_religiosa/1-109
61677551|Gibbula_zonata/1-125
61677553|Stomatella_sp./1-125
161376174|Acroperla_trivacauta/1-125
161376258|Isoperla_fulva/1-125
161376296|Perlinella_drymo/1-125
45545198|Acromantis_sp./1-109
45545200|Chrysomantis_sp./1-109
45545202|Gongylus_gongylodes/1-109
45545204|Paraoxypilus_verreauxii/1-109
45545206|Mantoida_schraderi/1-109
45545208|Hymenopus_coronatus/1-109
45545210|Phyllocrania_paradoxa/1-109
45545214|Sphodromantis_viridis/1-109
45545216|Vates_pectinacornis/1-109
45545218|Sphodromantis_lineola/1-109
45545220|Choeradodis_rhombicolli/1-109
45545222|Pseudocreobotra_occella/1-109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
45545226|Hierodula_sp./1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545228|Tamolanica_tamolana/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545232|Paraoxypilus_tasmaniens/1-109 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545236|Stagmomantis_vicina/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545238|Tenodera_costalis/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545240|Phyllovates_chlorophaea/1-109 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545242|Stagmomantis_sp./1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545244|Parastagmatoptera_sp./1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545252|Tamolanica_denticulata/1-109 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545254|Orthodera_sp./1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545258|Hoplocorypha_sp./1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545260|Stenomantis_novaeguinea/1-109 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545266|Bolbe_sp./1-109              ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545268|Plistospilota_sp./1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545270|Hoplocorypha_sp./1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545274|Hierodula_schultzei/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545276|Litaneutria_minor/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545278|Thrinaconyx_fumosus/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545280|Tylomantis_sp./1-109         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
45545286|Chloromantis_rhombica/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

45545226|Hierodula_sp./1-109          ..............................     109
45545228|Tamolanica_tamolana/1-109     ..............................     109
45545232|Paraoxypilus_tasmaniens/1-109 ..............................     109
45545236|Stagmomantis_vicina/1-109    ..............................     109
45545238|Tenodera_costalis/1-109      ..............................     109
45545240|Phyllovates_chlorophaea/1-109 ..............................     109
45545242|Stagmomantis_sp./1-109       ..............................     109
45545244|Parastagmatoptera_sp./1-109  ..............................     109
45545252|Tamolanica_denticulata/1-109 ..............................     109
45545254|Orthodera_sp./1-109          ..............................     109
45545258|Hoplocorypha_sp./1-109       ..............................     109
45545260|Stenomantis_novaeguinea/1-109 ..............................     109
45545266|Bolbe_sp./1-109              ..............................     109
45545268|Plistospilota_sp./1-109      ..............................     109
45545270|Hoplocorypha_sp./1-109       ..............................     109
45545274|Hierodula_schultzei/1-109    ..............................     109
45545276|Litaneutria_minor/1-109      ..............................     109
45545278|Thrinaconyx_fumosus/1-109    ..............................     109
45545280|Tylomantis_sp./1-109         ..............................     109
45545286|Chloromantis_rhombica/1-109  ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4
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                                       AXTKQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  4
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45545288|Neomantis_hyalina/1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
226597128|Cybaeus_hesper/1-125            ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
297040886|Callobius_sp./1-124             ...............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
158327360|Orchestia_guancha/1-123         ................AXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
158327372|Orchestia_stephenseni/1-123     ................AXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
297040888|Callobius_guachama/1-123        ................AXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   116
297040890|Callobius_sp./1-122             ................XTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   115
68509557|Anax_junius/1-117                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
239736569|Oplonaeschna_sp./1-117           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
45545290|Gyromantis_sp./1-109              ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
49659164|Pimelia_lutaria/1-109             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
49659166|Pimelia_radula/1-109              ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
49659168|Pimelia_radula/1-109              ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
49659170|Pimelia_ascendens/1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
49659172|Pimelia_canariensis/1-109         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
49659174|Pimelia_sparsa/1-109              ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
49659176|Pimelia_sparsa/1-109              ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
49659178|Pimelia_sparsa/1-109              ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
49659180|Pimelia_granulicollis/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
49659182|Pimelia_estevezi/1-109            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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45545288|Neomantis_hyalina/1-109          ..............................     109
226597128|Cybaeus_hesper/1-125            VTXMPKDI......................     125
297040886|Callobius_sp./1-124             VTXMPKD.......................     124
158327360|Orchestia_guancha/1-123         VTXMPKD.......................     123
158327372|Orchestia_stephenseni/1-123     VTXMPKD.......................     123
297040888|Callobius_guachama/1-123        VTXMPKD.......................     123
297040890|Callobius_sp./1-122             VTXMPKD.......................     122
68509557|Anax_junius/1-117                VTXMPKDI......................     117
239736569|Oplonaeschna_sp./1-117          VTXMPKDI......................     117
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49659164|Pimelia_lutaria/1-109            ..............................     109
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49659168|Pimelia_radula/1-109             ..............................     109
49659170|Pimelia_ascendens/1-109          ..............................     109
49659172|Pimelia_canariensis/1-109        ..............................     109
49659174|Pimelia_sparsa/1-109             ..............................     109
49659176|Pimelia_sparsa/1-109             ..............................     109
49659178|Pimelia_sparsa/1-109             ..............................     109
49659180|Pimelia_granulicollis/1-109      ..............................     109
49659182|Pimelia_estevezi/1-109           ..............................     109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                  RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

49659184|Pimelia_fernandezlopezi/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659186|Pimelia_laevigata/1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659188|Pimelia_laevigata/1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659190|Pimelia_laevigata/1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659192|Pimelia_atlantis/1-109         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659194|Pimelia_boyeri/1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659196|Pimelia_mauritanica/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659198|Pimelia_atlantis/1-109         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659200|Pimelia_maura/1-109            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659202|Pimelia_interjecta/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659204|Pimelia_criba/1-109            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659206|Pimelia_elevata/1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659208|Pimelia_baetica/1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659210|Pimelia_variolosa/1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659212|Pimelia_integra/1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659214|Pimelia_costata/1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659216|Pimelia_monticola/1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659218|Pimelia_scabrosa/1-109         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659220|Pimelia_rotundipennis/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
49659222|Pimelia_fornicata/1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

49659184|Pimelia_fernandezlopezi/1-109  ..............................  109
49659186|Pimelia_laevigata/1-109        ..............................  109
49659188|Pimelia_laevigata/1-109        ..............................  109
49659190|Pimelia_laevigata/1-109        ..............................  109
49659192|Pimelia_atlantis/1-109         ..............................  109
49659194|Pimelia_boyeri/1-109           ..............................  109
49659196|Pimelia_mauritanica/1-109      ..............................  109
49659198|Pimelia_atlantis/1-109         ..............................  109
49659200|Pimelia_maura/1-109            ..............................  109
49659202|Pimelia_interjecta/1-109       ..............................  109
49659204|Pimelia_criba/1-109            ..............................  109
49659206|Pimelia_elevata/1-109          ..............................  109
49659208|Pimelia_baetica/1-109          ..............................  109
49659210|Pimelia_variolosa/1-109        ..............................  109
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49659214|Pimelia_costata/1-109          ..............................  109
49659216|Pimelia_monticola/1-109        ..............................  109
49659218|Pimelia_scabrosa/1-109         ..............................  109
49659220|Pimelia_rotundipennis/1-109    ..............................  109
49659222|Pimelia_fornicata/1-109        ..............................  109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4
                                                      3
                                                      2
                                                      1
                                         QQTARK STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  4
                                                                                                                                                                  3
                                                                                                                                                                  2
                                                                                                                                                                  1
188037176|Dicranosepsis_olfactor/1-115   ..................QQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948549|Coralichlamys_madrepor/1-113   ..................QQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
126165773|Gelotia_syringopalpis/1-117   ..................QQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
126165811|Spartaeus_wildtrackii/1-116   ..................QQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948573|Aequipecten_operculari/1-113   ..................QQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
187948591|Argopecten_purpuratus/1-113   ..................QQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
219930726|Portunus_trituberculat/1-114   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
49659224|Pimelia_rugosa/1-109            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
49659226|Pimelia_echidna/1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
49659228|Pimelia_cordata/1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
49659230|Pimelia_sp./1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
49659232|Pimelia_sp./1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
50346981|Opisthoteuthis_sp./1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
50346983|Vampyroteuthis_infernal/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
50346985|Haliphron_atlanticus/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
50346988|Argonauta_nodosa/1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
50346996|Sepia_officinalis/1-109         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
50347006|Spirula_spirula/1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
50347008|Idiosepius_pygmaeus/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
50347010|Loligo_formosana/1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                                     RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4
                                                      3
                                                      2
                                                      1
                                                      VTIML
188037176|Dicranosepsis_olfactor/1-115   VT.............................   115
187948549|Coralichlamys_madrepor/1-113   .............................   113
126165773|Gelotia_syringopalpis/1-117    VTIM...........................   117
126165811|Spartaeus_wildtrackii/1-116    VTI............................   116
187948573|Aequipecten_operculari/1-113   .............................   113
187948591|Argopecten_purpuratus/1-113    .............................   113
219930726|Portunus_trituberculat/1-114   VTIML..........................   114
49659224|Pimelia_rugosa/1-109            .............................   109
49659226|Pimelia_echidna/1-109           .............................   109
49659228|Pimelia_cordata/1-109           .............................   109
49659230|Pimelia_sp./1-109               .............................   109
49659232|Pimelia_sp./1-109               .............................   109
50346981|Opisthoteuthis_sp./1-109        .............................   109
50346983|Vampyroteuthis_infernal/1-109   .............................   109
50346985|Haliphron_atlanticus/1-109      .............................   109
50346988|Argonauta_nodosa/1-109          .............................   109
50346996|Sepia_officinalis/1-109         .............................   109
50347006|Spirula_spirula/1-109           .............................   109
50347008|Idiosepius_pygmaeus/1-109       .............................   109
50347010|Loligo_formosana/1-109          .............................   109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
50347024|Brachioteuthis_sp./1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347028|Leachia_atlantica/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347030|Cycloteuthis_sirventi/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347034|Abraliopsis_pfefferi/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347036|Enoploteuthis_leptura/1-109  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347038|Ornithoteuthis_antillar/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347042|Pyroteuthis_margaritife/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347046|Gonatus_fabricii/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347048|Histioteuthis_corona/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347050|Histioteuthis_hoylei/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347052|Histioteuthis_reversa/1-109  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347054|Joubiniteuthis_portieri/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347058|Mastigoteuthis_agassizi/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347060|Mastigoteuthis_magna/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347066|Illex_coindeti/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50347072|Moroteuthis_knipovitchi/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50897937|Anodonta_sp./1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50897939|Dahurinaia_dahurica/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
50897941|Margaritifera_laevis/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
56089828|Oryzias_latipes/1-110        .....................PRK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
consensus                                                   RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

50347024|Brachioteuthis_sp./1-109      ..............................     109
50347028|Leachia_atlantica/1-109       ..............................     109
50347030|Cycloteuthis_sirventi/1-109   ..............................     109
50347034|Abraliopsis_pfefferi/1-109    ..............................     109
50347036|Enoploteuthis_leptura/1-109   ..............................     109
50347038|Ornithoteuthis_antillar/1-109 ..............................     109
50347042|Pyroteuthis_margaritife/1-109 ..............................     109
50347046|Gonatus_fabricii/1-109        ..............................     109
50347048|Histioteuthis_corona/1-109    ..............................     109
50347050|Histioteuthis_hoylei/1-109    ..............................     109
50347052|Histioteuthis_reversa/1-109   ..............................     109
50347054|Joubiniteuthis_portieri/1-109 ..............................     109
50347058|Mastigoteuthis_agassizi/1-109 ..............................     109
50347060|Mastigoteuthis_magna/1-109    ..............................     109
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50347072|Moroteuthis_knipovitchi/1-109 ..............................     109
50897937|Anodonta_sp./1-109            ..............................     109
50897939|Dahurinaia_dahurica/1-109     ..............................     109
50897941|Margaritifera_laevis/1-109    ..............................     109
56089828|Oryzias_latipes/1-110         ..............................     110
consensus
```

X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
61378952|Damon_gracilis/1-109
61677497|Emarginula_sp./1-109
62130940|Helochara_communis/1-109
62130942|Hylaius_oregonensis/1-109
62130946|Pagaronia_tredecimpunct/1-109
62130948|Diestostemma_excisum/1-109
62130952|Jikradia_olitoria/1-109
62130954|Paromenia_isabellina/1-109
62130956|Cicadella_viridis/1-109
62130958|Oncometopia_orbona/1-109
62130962|Graphocephala_coccinea/1-109
62130964|Homalodisca_liturata/1-109
62130968|Homalodisca_vitripennis/1-109
62130972|Proconosama_alalia/1-109
62130974|Clydacha_catapulta/1-109
62130976|Pamplona_spatulata/1-109
62130978|Homoscarta_irregularis/1-109
62130980|Acrogonia_virescens/1-109
62130984|Phera_obtusifrons/1-109
62130986|Cyrtodisca_major/1-109
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo
61378952|Damon_gracilis/1-109
61677497|Emarginula_sp./1-109
62130940|Helochara_communis/1-109
62130942|Hylaius_oregonensis/1-109
62130946|Pagaronia_tredecimpunct/1-109
62130948|Diestostemma_excisum/1-109
62130952|Jikradia_olitoria/1-109
62130954|Paromenia_isabellina/1-109
62130956|Cicadella_viridis/1-109
62130958|Oncometopia_orbona/1-109
62130962|Graphocephala_coccinea/1-109
62130964|Homalodisca_liturata/1-109
62130968|Homalodisca_vitripennis/1-109
62130972|Proconosama_alalia/1-109
62130974|Clydacha_catapulta/1-109
62130976|Pamplona_spatulata/1-109
62130978|Homoscarta_irregularis/1-109
62130980|Acrogonia_virescens/1-109
62130984|Phera_obtusifrons/1-109
62130986|Cyrtodisca_major/1-109
consensus
```

X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
62130988|Cuerna_striata/1-109
66864808|Cyphophthalmus_sp./1-109
71726123|Cambaroides_japonicus/1-109
71726125|Cambarus_maculatus/1-109
71726131|Cherax_glaber/1-109
71726135|Cryphiops_caementarius/1-109
71726139|Euphausia_eximia/1-109
150247965|Plistospilota_guineens/1-125
150247981|Prohierodula_ornatipen/1-125
150247987|Anaxarcha_intermedia/1-125
71726151|Lomis_hirta/1-109
71726177|Orconectes_virilis/1-109
81158380|Scutigerina_weberi/1-109
81158386|Pselliodes_guildingii/1-109
81158394|Scutigera_coleoptrata/1-109
81158396|Thereuopoda_clunifera/1-109
81158398|Thereuopoda_longicornis/1-109
81158400|Thereuonema_turkestana/1-109
81158402|Thereuonema_tuberculata/1-109
81158404|Thereuopodina_n./1-109
consensus
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logo
VTIMPKDI
62130988|Cuerna_striata/1-109 109
66864808|Cyphophthalmus_sp./1-109 109
71726123|Cambaroides_japonicus/1-109 109
71726125|Cambarus_maculatus/1-109 109
71726131|Cherax_glaber/1-109 109
71726135|Cryphiops_caementarius/1-109 109
71726139|Euphausia_eximia/1-109 109
150247965|Plistospilota_guineens/1-125 VTIMPKDI 125
150247981|Prohierodula_ornatipen/1-125 VTIMPKDI 125
150247987|Anaxarcha_intermedia/1-125 VTIMPKDI 125
71726151|Lomis_hirta/1-109 109
71726177|Orconectes_virilis/1-109 109
81158380|Scutigerina_weberi/1-109 109
81158386|Pselliodes_guildingii/1-109 109
81158394|Scutigera_coleoptrata/1-109 109
81158396|Thereuopoda_clunifera/1-109 109
81158398|Thereuopoda_longicornis/1-109 109
81158400|Thereuonema_turkestana/1-109 109
81158402|Thereuonema_tuberculata/1-109 109
81158404|Thereuopodina_n./1-109 109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
81158406|Allothereua_maculata/1-109
81158410|Allothereua_serrulata/1-109
81158414|Parascutigera_festiva/1-109
81158416|Parascutigera_latericia/1-109
82561546|Patelloida_saccharina/1-109
82561550|Acmaea_sp./1-109
82561552|Eulepetopsis_vitrea/1-109
82561554|Alcadia_dysonia/1-109
82561558|Cyathermia_naticoides/1-109
82561560|Depressigyra_globulus/1-109
82561562|Perotrochus_midas/1-109
82561564|Lepetodrilus_elevatus/1-109
82561566|Diodora_graeca/1-109
82561568|Bathymargarites_symplec/1-109
82561570|Calliostoma_granulatum/1-109
82561576|Littorina_littorea/1-109
82561578|Philine_aperta/1-109
82561580|Stylocheilus_longicauda/1-109
82561582|Salinator_solida/1-109
82561584|Onchidella_sp./1-109
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo
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81158406|Allothereua_maculata/1-109
81158410|Allothereua_serrulata/1-109
81158414|Parascutigera_festiva/1-109
81158416|Parascutigera_latericia/1-109
82561546|Patelloida_saccharina/1-109
82561550|Acmaea_sp./1-109
82561552|Eulepetopsis_vitrea/1-109
82561554|Alcadia_dysonia/1-109
82561558|Cyathermia_naticoides/1-109
82561560|Depressigyra_globulus/1-109
82561562|Perotrochus_midas/1-109
82561564|Lepetodrilus_elevatus/1-109
82561566|Diodora_graeca/1-109
82561568|Bathymargarites_symplec/1-109
82561570|Calliostoma_granulatum/1-109
82561576|Littorina_littorea/1-109
82561578|Philine_aperta/1-109
82561580|Stylocheilus_longicauda/1-109
82561582|Salinator_solida/1-109
82561584|Onchidella_sp./1-109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
82561586|Ophicardelus_ornatus/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
82561588|Micromelo_undatus/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
82622135|Lineus_bilineatus/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
297040742|Callobius_manzanita/1-118           ...................XQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
82622139|Phascolion_strombus/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
82622143|Antalis_entalis/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
82622147|Nuculana_minuta/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
82622151|Astarte_castanea/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
82622153|Abra_nitida/1-109                     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
82622155|Phaxas_pellucidus/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
82622157|Parvicardium_minimum/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
82622163|Bolinus_brandaris/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
82622165|Raphitoma_linearis/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
82622169|Discodoris_atromaculata/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
83321170|Conochilus_unicornis/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
83655590|Gnathostomula_axi/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
83655601|Problognathia_minima/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
84683126|Texoreddellia_texensis/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
84683128|Anelpistina_boneti/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
84683130|Anelpistina_doradoi/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                              RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

82561586|Ophicardelus_ornatus/1-109          ..............................     109
82561588|Micromelo_undatus/1-109              ..............................     109
82622135|Lineus_bilineatus/1-109               ..............................     109
297040742|Callobius_manzanita/1-118           VTIMP........................     118
82622139|Phascolion_strombus/1-109             ..............................     109
82622143|Antalis_entalis/1-109                 ..............................     109
82622147|Nuculana_minuta/1-109                 ..............................     109
82622151|Astarte_castanea/1-109                ..............................     109
82622153|Abra_nitida/1-109                     ..............................     109
82622155|Phaxas_pellucidus/1-109               ..............................     109
82622157|Parvicardium_minimum/1-109            ..............................     109
82622163|Bolinus_brandaris/1-109               ..............................     109
82622165|Raphitoma_linearis/1-109              ..............................     109
82622169|Discodoris_atromaculata/1-109         ..............................     109
83321170|Conochilus_unicornis/1-109            ..............................     109
83655590|Gnathostomula_axi/1-109               ..............................     109
83655601|Problognathia_minima/1-109            ..............................     109
84683126|Texoreddellia_texensis/1-109          ..............................     109
84683128|Anelpistina_boneti/1-109              ..............................     109
84683130|Anelpistina_doradoi/1-109             ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
84683133|Anelpistina_n./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
84683135|Anelpistina_n./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
84683139|Anelpistina_n./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
84683143|Anelpistina_negreai/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
84683145|Anelpistina_puertoricen/1-109                                                                                                                                                                                                                                                                                                                                                                                                
84683149|Anelpistina_quinterensi/1-109                                                                                                                                                                                                                                                                                                
84683151|Cubacubana_asymmetrica/1-109                                                                                                                                                                                                
84683153|Cubacubana_mexicana/1-109                                                                                                                                                                
84683155|Cubacubana_n./1-109                                                                                                
84683157|Cubacubana_ramosi/1-109                                                                
84683161|Prosthecina_n./1-109                                                
86372416|Apionsoma_misakianum/1-109                                
86372418|Aspidosiphon_albus/1-109                                
86372428|Aspidosiphon_gracilis/1-109                                
86372432|Aspidosiphon_muelleri/1-109                                
86372450|Golfingia_margaritacea/1-109                                
86372454|Nephasoma_diaphanes/1-109                                
297040740|Callobius_severus/1-124                                
86372456|Nephasoma_flagriferum/1-109                                
86372460|Onchnesoma_steenstrupii/1-109                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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84683133|Anelpistina_n./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
84683135|Anelpistina_n./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
84683139|Anelpistina_n./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
84683143|Anelpistina_negreai/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
84683145|Anelpistina_puertoricen/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
84683149|Anelpistina_quinterensi/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
84683151|Cubacubana_asymmetrica/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
84683153|Cubacubana_mexicana/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
84683155|Cubacubana_n./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
84683157|Cubacubana_ramosi/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
84683161|Prosthecina_n./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
86372416|Apionsoma_misakianum/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
86372418|Aspidosiphon_albus/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
86372428|Aspidosiphon_gracilis/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
86372432|Aspidosiphon_muelleri/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
86372450|Golfingia_margaritacea/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
86372454|Nephasoma_diaphanes/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297040740|Callobius_severus/1-124                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
86372456|Nephasoma_flagriferum/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
86372460|Onchnesoma_steenstrupii/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
86372464|Phascolion_gerardi/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
86372468|Phascolosoma_agassizii/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
86372470|Phascolosoma_capitatum/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
86372472|Phascolosoma_nigrescens/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
86372486|Phascolosoma_turnerae/1-109                                                                                                                                                                                                                                                                                                                
86372492|Sipunculus_norvegicus/1-109                                                                                                                                                                                                                                                                                                                
86372494|Sipunculus_nudus/1-109                                                                                                                                                                                                                                                                                                                
86372500|Sipunculus_phalloides/1-109                                                                                                                                                                                                                                                                                                
86372502|Sipunculus_polymyotus/1-109                                                                                                                                                                                                                                                                                                
86372504|Themiste_hennahi/1-109                                                                                                                                                                                                                                                                                                
86372508|Themiste_pyroides/1-109                                                                                                                                                                                                                                                                                                
86372510|Thysanocardia_catherina/1-109                                                                                                                                                                                                                                                                                                
86372514|Xenosiphon_branchiatus/1-109                                                                                                                                                                                                                                                                                                
90184330|Aplastodiscus_perviridi/1-109                                                                                                                                                                                                                                                                                                
90184332|Scinax_ruber/1-109                                                                                                                                                                                                                                                                                                
90184336|Scinax_garbei/1-109                                                                                                                                                                                                                                                                                                
90184338|Sphaenorhynchus_lacteus/1-109                                                                                                                                                                                                                                                                                                
90184340|Osteopilus_septentriona/1-109                                                                                                                                                                                                                                                                                                
90184342|Crossodactylus_schmidti/1-109                                                                                                                                                                                                                                                                                                
90184344|Dendropsophus_nanus/1-109                                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo
86372464|Phascolion_gerardi/1-109
86372468|Phascolosoma_agassizii/1-109
86372470|Phascolosoma_capitatum/1-109
86372472|Phascolosoma_nigrescens/1-109
86372486|Phascolosoma_turnerae/1-109
86372492|Sipunculus_norvegicus/1-109
86372494|Sipunculus_nudus/1-109
86372500|Sipunculus_phalloides/1-109
86372502|Sipunculus_polymyotus/1-109
86372504|Themiste_hennahi/1-109
86372508|Themiste_pyroides/1-109
86372510|Thysanocardia_catherina/1-109
86372514|Xenosiphon_branchiatus/1-109
90184330|Aplastodiscus_perviridi/1-109
90184332|Scinax_ruber/1-109
90184336|Scinax_garbei/1-109
90184338|Sphaenorhynchus_lacteus/1-109
90184340|Osteopilus_septentriona/1-109
90184342|Crossodactylus_schmidti/1-109
90184344|Dendropsophus_nanus/1-109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184352|Mantidactylus_cf./1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184354|Mantella_nigricans/1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184356|Hyla_cinerea/1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184360|Duellmanohyla_rufioculi/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184362|Melanophryniscus_klappe/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184364|Mantella_aurantiaca/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184366|Spinomantis_peraccae/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184368|Epipedobates_boulengeri/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184370|Argenteohyla_siemersi/1-109  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184374|Nymphargus_bejaranoi/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184378|Telmatobius_marmoratus/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
297040916|Callobius_sp./1-123          ................GLSKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    116
90184380|Gastrotheca_cf./1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184382|Hyloscirtus_armatus/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184384|Ranitomeya_claudiae/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184386|Dendrobates_auratus/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184388|Allobates_undulatus/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184390|Allobates_femoralis/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184392|Osteocephalus_taurinus/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184396|Bufo_spinulosus/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
consensus                                                    RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

90184352|Mantidactylus_cf./1-109      ..............................      109
90184354|Mantella_nigricans/1-109     ..............................      109
90184356|Hyla_cinerea/1-109           ..............................      109
90184360|Duellmanohyla_rufioculi/1-109 .............................      109
90184362|Melanophryniscus_klappe/1-109 .............................      109
90184364|Mantella_aurantiaca/1-109    ..............................      109
90184366|Spinomantis_peraccae/1-109   ..............................      109
90184368|Epipedobates_boulengeri/1-109 .............................      109
90184370|Argenteohyla_siemersi/1-109  ..............................      109
90184374|Nymphargus_bejaranoi/1-109   ..............................      109
90184378|Telmatobius_marmoratus/1-109 ..............................      109
297040916|Callobius_sp./1-123         VTIMPKD......................      123
90184380|Gastrotheca_cf./1-109        ..............................      109
90184382|Hyloscirtus_armatus/1-109    ..............................      109
90184384|Ranitomeya_claudiae/1-109    ..............................      109
90184386|Dendrobates_auratus/1-109    ..............................      109
90184388|Allobates_undulatus/1-109    ..............................      109
90184390|Allobates_femoralis/1-109    ..............................      109
90184392|Osteocephalus_taurinus/1-109 ..............................      109
90184396|Bufo_spinulosus/1-109        ..............................      109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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90184398|Rhacophorus_bipunctatus/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184400|Polypedates_leucomystax/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184402|Theloderma_corticale/1-109     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184404|Leptobrachium_chapaense/1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184406|Triprion_petasatus/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184412|Dendropsophus_marmoratu/1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184416|Kurixalus_idiootocus/1-109     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184418|Hyloscirtus_palmeri/1-109      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184422|Hoplobatrachus_occipita/1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184424|Ischnocnema_sp./1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184426|Bufo_marinus/1-109             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184428|Adenomera_hylaedactyla/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184430|Synapturanus_mirandarib/1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184434|Dendrophryniscus_minutu/1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184436|Trachycephalus_jordani/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184438|Litoria_aurea/1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184442|Charadrahyla_nephila/1-109     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184446|Bufo_paracnemis/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184448|Bufo_arenarum/1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184450|Leptodactylus_ocellatus/1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                               RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

90184398|Rhacophorus_bipunctatus/1-109   ..............................   109
90184400|Polypedates_leucomystax/1-109   ..............................   109
90184402|Theloderma_corticale/1-109     ..............................   109
90184404|Leptobrachium_chapaense/1-109  ..............................   109
90184406|Triprion_petasatus/1-109       ..............................   109
90184412|Dendropsophus_marmoratu/1-109  ..............................   109
90184416|Kurixalus_idiootocus/1-109     ..............................   109
90184418|Hyloscirtus_palmeri/1-109      ..............................   109
90184422|Hoplobatrachus_occipita/1-109  ..............................   109
90184424|Ischnocnema_sp./1-109          ..............................   109
90184426|Bufo_marinus/1-109             ..............................   109
90184428|Adenomera_hylaedactyla/1-109   ..............................   109
90184430|Synapturanus_mirandarib/1-109  ..............................   109
90184434|Dendrophryniscus_minutu/1-109  ..............................   109
90184436|Trachycephalus_jordani/1-109   ..............................   109
90184438|Litoria_aurea/1-109            ..............................   109
90184442|Charadrahyla_nephila/1-109     ..............................   109
90184446|Bufo_paracnemis/1-109          ..............................   109
90184448|Bufo_arenarum/1-109            ..............................   109
90184450|Leptodactylus_ocellatus/1-109  ..............................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184452|Amietia_fuscigula/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184454|Arthroleptella_bicolor/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184456|Acris_crepitans/1-109                    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184464|Pleurodema_brachyops/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184466|Lithodytes_lineatus/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
297040938|Callobius_sp./1-123                     ................GSXKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     116
90184468|Heleophryne_purcelli/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184472|Ecnomiohyla_miliaria/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184474|Ameerega_silverstonei/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184478|Alsodes_gargola/1-109                     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184480|Batrachyla_leptopus/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184482|Eupsophus_calcaratus/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184484|Tlalocohyla_picta/1-109                   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184486|Litoria_freycineti/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184490|Cyclorana_australis/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184492|Litoria_meiriana/1-109                    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184494|Nyctimystes_pulcher/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184496|Limnomedusa_macroglossa/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184498|Pseudis_paradoxa/1-109                    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184502|Petropedetes_cameronens/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                                 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184452|Amietia_fuscigula/1-109                  ..............................     109
90184454|Arthroleptella_bicolor/1-109            ..............................     109
90184456|Acris_crepitans/1-109                    ..............................     109
90184464|Pleurodema_brachyops/1-109               ..............................     109
90184466|Lithodytes_lineatus/1-109                 ..............................     109
297040938|Callobius_sp./1-123                     VTIMPKD.......................     123
90184468|Heleophryne_purcelli/1-109                ..............................     109
90184472|Ecnomiohyla_miliaria/1-109                ..............................     109
90184474|Ameerega_silverstonei/1-109               ..............................     109
90184478|Alsodes_gargola/1-109                     ..............................     109
90184480|Batrachyla_leptopus/1-109                 ..............................     109
90184482|Eupsophus_calcaratus/1-109                ..............................     109
90184484|Tlalocohyla_picta/1-109                   ..............................     109
90184486|Litoria_freycineti/1-109                  ..............................     109
90184490|Cyclorana_australis/1-109                 ..............................     109
90184492|Litoria_meiriana/1-109                    ..............................     109
90184494|Nyctimystes_pulcher/1-109                 ..............................     109
90184496|Limnomedusa_macroglossa/1-109             ..............................     109
90184498|Pseudis_paradoxa/1-109                    ..............................     109
90184502|Petropedetes_cameronens/1-109             ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                3
                                                      2                                                                                2
                                                      1                                                                                1
90184504|Arthroleptis_sylvaticus/1-109                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184506|Cardioglossa_leucomysta/1-109               ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184508|Arthroleptis_variabilis/1-109                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184510|Phrynobatrachus_sanders/1-109                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184512|Phrynobatrachus_auritus/1-109                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184518|Boulengerula_uluguruens/1-109                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184520|Siphonops_hardyi/1-109                       ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184522|Schistometopum_gregorii/1-109                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184526|Haddadus_binotatus/1-109                     ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184528|Ischnocnema_juipoca/1-109                    ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184530|Barycholos_ternetzi/1-109                    ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184532|Dasypops_schirchi/1-109                      ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184534|Hylodes_phyllodes/1-109                      ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184536|Cycloramphus_boraceiens/1-109                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184538|Paratelmatobius_sp./1-109                    ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184540|Scythrophrys_sawayae/1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184542|Sphaerotheca_pluvialis/1-109                 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184544|Eleutherodactylus_marno/1-109                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184546|Rana_forreri/1-109                           ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
68012860|Cephalopholis_argus/1-119                   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4                                 4
                                                      3                                 3
                                                      2                                 2
                                                      1                                 1
90184504|Arthroleptis_sylvaticus/1-109                ..............................    109
90184506|Cardioglossa_leucomysta/1-109                ..............................    109
90184508|Arthroleptis_variabilis/1-109                ..............................    109
90184510|Phrynobatrachus_sanders/1-109                ..............................    109
90184512|Phrynobatrachus_auritus/1-109                ..............................    109
90184518|Boulengerula_uluguruens/1-109                ..............................    109
90184520|Siphonops_hardyi/1-109                       ..............................    109
90184522|Schistometopum_gregorii/1-109                ..............................    109
90184526|Haddadus_binotatus/1-109                     ..............................    109
90184528|Ischnocnema_juipoca/1-109                    ..............................    109
90184530|Barycholos_ternetzi/1-109                    ..............................    109
90184532|Dasypops_schirchi/1-109                      ..............................    109
90184534|Hylodes_phyllodes/1-109                      ..............................    109
90184536|Cycloramphus_boraceiens/1-109                ..............................    109
90184538|Paratelmatobius_sp./1-109                    ..............................    109
90184540|Scythrophrys_sawayae/1-109                   ..............................    109
90184542|Sphaerotheca_pluvialis/1-109                 ..............................    109
90184544|Eleutherodactylus_marno/1-109                ..............................    109
90184546|Rana_forreri/1-109                           ..............................    109
68012860|Cephalopholis_argus/1-119                   VTXYAX........................    119
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
27923451|Oreophoetes_peruana/1-118  ................AGTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  116
27923473|Gratidia_fritzchei/1-118  ................AGTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  116
27923475|Baculini_sp./1-118  ................AGTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  116
90184548|Platymantis_pelewensis/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184550|Craugastor_ranoides/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184552|Eleutherodactylus_plani/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184554|Rhinophrynus_dorsalis/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184556|Pelodytes_punctatus/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184558|Alytes_obstetricans/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184562|Nyctixalus_spinosus/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184564|Heleophryne_regis/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184566|Ascaphus_truei/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184568|Rana_adenopleura/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184572|Amphiuma_tridactylum/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184574|Kurixalus_eiffingeri/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184576|Rana_pipiens/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184578|Pseudoamolops_sauteri/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184580|Plethodon_jordani/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184582|Rana_temporaria/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184584|Epicrionops_sp./1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                           RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

27923451|Oreophoetes_peruana/1-118  VT.............................  118
27923473|Gratidia_fritzchei/1-118  VT.............................  118
27923475|Baculini_sp./1-118  VT.............................  118
90184548|Platymantis_pelewensis/1-109  .............................  109
90184550|Craugastor_ranoides/1-109  .............................  109
90184552|Eleutherodactylus_plani/1-109  .............................  109
90184554|Rhinophrynus_dorsalis/1-109  .............................  109
90184556|Pelodytes_punctatus/1-109  .............................  109
90184558|Alytes_obstetricans/1-109  .............................  109
90184562|Nyctixalus_spinosus/1-109  .............................  109
90184564|Heleophryne_regis/1-109  .............................  109
90184566|Ascaphus_truei/1-109  .............................  109
90184568|Rana_adenopleura/1-109  .............................  109
90184572|Amphiuma_tridactylum/1-109  .............................  109
90184574|Kurixalus_eiffingeri/1-109  .............................  109
90184576|Rana_pipiens/1-109  .............................  109
90184578|Pseudoamolops_sauteri/1-109  .............................  109
90184580|Plethodon_jordani/1-109  .............................  109
90184582|Rana_temporaria/1-109  .............................  109
90184584|Epicrionops_sp./1-109  .............................  109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184586|Hypogeophis_rostratus/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184588|Conraua_goliath/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184590|Nyctixalus_pictus/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184592|Chiromantis_vittatus/1-109  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184596|Rana_japonica/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184604|Hoplobatrachus_rugulosu/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184606|Ingerana_baluensis/1-109     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184610|Calluella_guttulata/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184614|Kalophrynus_pleurostigm/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184618|Bufo_asper/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184620|Bufo_divergens/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184622|Necturus_cf./1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184626|Bufo_quercicus/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184628|Phrynomantis_bifasciatu/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184630|Scaphiopus_holbrookii/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184632|Pyxicephalus_edulis/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
226597126|Cybaeus_sanbruno/1-125      ...............XAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
90184634|Bufo_terrestris/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184636|Bufo_cognatus/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184638|Bufo_punctatus/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                                   RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

90184586|Hypogeophis_rostratus/1-109   ..............................   109
90184588|Conraua_goliath/1-109         ..............................   109
90184590|Nyctixalus_pictus/1-109       ..............................   109
90184592|Chiromantis_vittatus/1-109    ..............................   109
90184596|Rana_japonica/1-109           ..............................   109
90184604|Hoplobatrachus_rugulosu/1-109 ..............................   109
90184606|Ingerana_baluensis/1-109      ..............................   109
90184610|Calluella_guttulata/1-109     ..............................   109
90184614|Kalophrynus_pleurostigm/1-109 ..............................   109
90184618|Bufo_asper/1-109              ..............................   109
90184620|Bufo_divergens/1-109          ..............................   109
90184622|Necturus_cf./1-109            ..............................   109
90184626|Bufo_quercicus/1-109          ..............................   109
90184628|Phrynomantis_bifasciatu/1-109 ..............................   109
90184630|Scaphiopus_holbrookii/1-109   ..............................   109
90184632|Pyxicephalus_edulis/1-109     ..............................   109
226597126|Cybaeus_sanbruno/1-125       VTIMXKDI......................   125
90184634|Bufo_terrestris/1-109         ..............................   109
90184636|Bufo_cognatus/1-109           ..............................   109
90184638|Bufo_punctatus/1-109          ..............................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

90184640|Leptopelis_sp./1-109                         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184642|Bufo_cf./1-109                               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184644|Bufo_regularis/1-109                         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184646|Pedostibes_hosii/1-109                       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184648|Strabomantis_bufoniform/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184650|Bufo_coniferus/1-109                         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184652|Bufo_haematiticus/1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184656|Nectophryne_batesii/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184658|Cryptothylax_greshoffii/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184660|Alexteroon_obstetricans/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184662|Aubria_subsigillata/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184664|Opisthothylax_immaculat/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184666|Phrynobatrachus_african/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184668|Cardioglossa_gratiosa/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184670|Petropedetes_newtoni/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184672|Bufo_boreas/1-109                            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184674|Siren_lacertina/1-109                        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184676|Pseudobranchus_striatus/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184678|Ambystoma_cingulatum/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184680|Rana_clamitans/1-109                         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

90184640|Leptopelis_sp./1-109                         ..............................  109
90184642|Bufo_cf./1-109                               ..............................  109
90184644|Bufo_regularis/1-109                         ..............................  109
90184646|Pedostibes_hosii/1-109                       ..............................  109
90184648|Strabomantis_bufoniform/1-109                ..............................  109
90184650|Bufo_coniferus/1-109                         ..............................  109
90184652|Bufo_haematiticus/1-109                      ..............................  109
90184656|Nectophryne_batesii/1-109                    ..............................  109
90184658|Cryptothylax_greshoffii/1-109                ..............................  109
90184660|Alexteroon_obstetricans/1-109                ..............................  109
90184662|Aubria_subsigillata/1-109                    ..............................  109
90184664|Opisthothylax_immaculat/1-109                ..............................  109
90184666|Phrynobatrachus_african/1-109                ..............................  109
90184668|Cardioglossa_gratiosa/1-109                  ..............................  109
90184670|Petropedetes_newtoni/1-109                   ..............................  109
90184672|Bufo_boreas/1-109                            ..............................  109
90184674|Siren_lacertina/1-109                        ..............................  109
90184676|Pseudobranchus_striatus/1-109                ..............................  109
90184678|Ambystoma_cingulatum/1-109                   ..............................  109
90184680|Rana_clamitans/1-109                         ..............................  109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184682|Rana_grylio/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184686|Bufo_woodhousii/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184688|Rana_aurora/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184692|Rana_heckscheri/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184694|Crinia_signifera/1-109                                                                                                                                
90184696|Oreophryne_brachypus/1-109                                                                                                
90184698|Aphantophryne_pansa/1-109                                                                                
90184700|Platymantis_weberi/1-109                                                                
90184702|Ceratobatrachus_guenthe/1-109                                                
90184704|Liophryne_rhododactyla/1-109                                
27923499|Sungaya_inexpectata/1-118                                
90184706|Discodeles_guppyi/1-109                                
90184708|Rana_daemeli/1-109                                
90184710|Limnonectes_grunniens/1-109                                
90184712|Rana_arfaki/1-109                                
90184714|Litoria_lesueurii/1-109                                
90184716|Sphenophryne_sp./1-109                                
90184718|Cophixalus_sphagnicola/1-109                                
90184720|Choerophryne_sp./1-109                                
90184722|Copiula_sp./1-109                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184682|Rana_grylio/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184686|Bufo_woodhousii/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184688|Rana_aurora/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184692|Rana_heckscheri/1-109                                                                                                                                
90184694|Crinia_signifera/1-109                                                                                                
90184696|Oreophryne_brachypus/1-109                                                                                
90184698|Aphantophryne_pansa/1-109                                                                
90184700|Platymantis_weberi/1-109                                                
90184702|Ceratobatrachus_guenthe/1-109                                
90184704|Liophryne_rhododactyla/1-109                                
27923499|Sungaya_inexpectata/1-118                                
90184706|Discodeles_guppyi/1-109                                
90184708|Rana_daemeli/1-109                                
90184710|Limnonectes_grunniens/1-109                                
90184712|Rana_arfaki/1-109                                
90184714|Litoria_lesueurii/1-109                                
90184716|Sphenophryne_sp./1-109                                
90184718|Cophixalus_sphagnicola/1-109                                
90184720|Choerophryne_sp./1-109                                
90184722|Copiula_sp./1-109                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184724|Genyophryne_thomsoni/1-109                  .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184726|Batrachylodes_vertebral/1-109               .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184728|Litoria_inermis/1-109                       .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184730|Ambystoma_mexicanum/1-109                  .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184732|Rana_johnsi/1-109                           .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184734|Leiopelma_archeyi/1-109                     .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184736|Leiopelma_hochstetteri/1-109                .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184738|Litoria_nannotis/1-109                      .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184740|Iguana_iguana/1-109                         .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184742|Nyctimystes_dayi/1-109                      .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184744|Uperoleia_laevigata/1-109                   .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184746|Litoria_genimaculata/1-109                  .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184750|Occidozyga_lima/1-109                       .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184752|Hyperolius_alticola/1-109                   .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184754|Leptopelis_argenteus/1-109                  .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184758|Amietia_angolensis/1-109                    .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184760|Phrynobatrachus_dendrob/1-109               .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184762|Bufo_andrewsi/1-109                         .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184768|Afrixalus_pygmaeus/1-109                   .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184776|Rana_grahami/1-109                          .....RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

90184724|Genyophryne_thomsoni/1-109                  ..................................     109
90184726|Batrachylodes_vertebral/1-109               ..................................     109
90184728|Litoria_inermis/1-109                       ..................................     109
90184730|Ambystoma_mexicanum/1-109                  ..................................     109
90184732|Rana_johnsi/1-109                           ..................................     109
90184734|Leiopelma_archeyi/1-109                     ..................................     109
90184736|Leiopelma_hochstetteri/1-109                ..................................     109
90184738|Litoria_nannotis/1-109                      ..................................     109
90184740|Iguana_iguana/1-109                         ..................................     109
90184742|Nyctimystes_dayi/1-109                      ..................................     109
90184744|Uperoleia_laevigata/1-109                   ..................................     109
90184746|Litoria_genimaculata/1-109                  ..................................     109
90184750|Occidozyga_lima/1-109                       ..................................     109
90184752|Hyperolius_alticola/1-109                   ..................................     109
90184754|Leptopelis_argenteus/1-109                  ..................................     109
90184758|Amietia_angolensis/1-109                    ..................................     109
90184760|Phrynobatrachus_dendrob/1-109               ..................................     109
90184762|Bufo_andrewsi/1-109                         ..................................     109
90184768|Afrixalus_pygmaeus/1-109                   ..................................     109
90184776|Rana_grahami/1-109                          ..................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184782|Discoglossus_galganoi/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184784|Quasipaa_exilispinosa/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184786|Limnodynastes_peronii/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184788|Odontophrynus_achalensi/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
188037194|Paratoxopoda_depilis/1-115     ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
90184790|Bombina_variegata/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184792|Bombina_bombina/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184796|Pipa_carvalhoi/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184800|Gyrinophilus_porphyriti/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184802|Rana_warszewitschii/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184804|Cacosternum_platys/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184806|Atelopus_flavescens/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184808|Atelopus_spumarius/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184812|Plethodon_dunni/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184816|Rana_guentheri/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184818|Gastrophryne_olivacea/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184822|Rana_chiricahuensis/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184824|Craugastor_augusti/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184826|Rana_yavapaiensis/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184832|Rheobatrachus_silus/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                       RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

90184782|Discoglossus_galganoi/1-109      ..............................     109
90184784|Quasipaa_exilispinosa/1-109      ..............................     109
90184786|Limnodynastes_peronii/1-109      ..............................     109
90184788|Odontophrynus_achalensi/1-109    ..............................     109
188037194|Paratoxopoda_depilis/1-115     VI............................     115
90184790|Bombina_variegata/1-109          ..............................     109
90184792|Bombina_bombina/1-109            ..............................     109
90184796|Pipa_carvalhoi/1-109             ..............................     109
90184800|Gyrinophilus_porphyriti/1-109    ..............................     109
90184802|Rana_warszewitschii/1-109        ..............................     109
90184804|Cacosternum_platys/1-109         ..............................     109
90184806|Atelopus_flavescens/1-109        ..............................     109
90184808|Atelopus_spumarius/1-109         ..............................     109
90184812|Plethodon_dunni/1-109            ..............................     109
90184816|Rana_guentheri/1-109             ..............................     109
90184818|Gastrophryne_olivacea/1-109      ..............................     109
90184822|Rana_chiricahuensis/1-109        ..............................     109
90184824|Craugastor_augusti/1-109         ..............................     109
90184826|Rana_yavapaiensis/1-109          ..............................     109
90184832|Rheobatrachus_silus/1-109        ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184834|Taudactylus_acutirostri/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184836|Bufo_viridis/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184838|Limnodynastes_ornatus/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184840|Lechriodus_fletcheri/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184842|Assa_darlingtoni/1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184844|Limnodynastes_dumerilii/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184846|Notaden_melanoscaphus/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184848|Megistolotis_lignarius/1-109     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184850|Neobatrachus_pictus/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184852|Metacrinia_nichollsi/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184854|Geocrinia_victoriana/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184856|Adelotus_brevis/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184858|Spicospina_flammocaerul/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184860|Rana_maculata/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184862|Paracrinia_haswelli/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184864|Heleioporus_australiacu/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184866|Limnodynastes_depressus/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184868|Myobatrachus_gouldii/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
297040780|Callobius_sp./1-124             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
90184872|Mixophyes_carbinensis/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
consensus                                                      RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

90184834|Taudactylus_acutirostri/1-109    ..................................    109
90184836|Bufo_viridis/1-109               ..................................    109
90184838|Limnodynastes_ornatus/1-109      ..................................    109
90184840|Lechriodus_fletcheri/1-109       ..................................    109
90184842|Assa_darlingtoni/1-109           ..................................    109
90184844|Limnodynastes_dumerilii/1-109    ..................................    109
90184846|Notaden_melanoscaphus/1-109      ..................................    109
90184848|Megistolotis_lignarius/1-109     ..................................    109
90184850|Neobatrachus_pictus/1-109        ..................................    109
90184852|Metacrinia_nichollsi/1-109       ..................................    109
90184854|Geocrinia_victoriana/1-109       ..................................    109
90184856|Adelotus_brevis/1-109            ..................................    109
90184858|Spicospina_flammocaerul/1-109    ..................................    109
90184860|Rana_maculata/1-109              ..................................    109
90184862|Paracrinia_haswelli/1-109        ..................................    109
90184864|Heleioporus_australiacu/1-109    ..................................    109
90184866|Limnodynastes_depressus/1-109    ..................................    109
90184868|Myobatrachus_gouldii/1-109       ..................................    109
297040780|Callobius_sp./1-124             VXXXPKD...........................    124
90184872|Mixophyes_carbinensis/1-109      ..................................    109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

```
logo                                                  4 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                 3
                                                      2                                                                                                                                                 2
                                                      1                                                                                                                                                 1
90184874|Eleutherodactylus_nitid/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184878|Craugastor_alfredi/1-109                     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184880|Latimeria_chalumnae/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184882|Rhinoderma_darwinii/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184886|Arenophryne_sp./1-109                       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184890|Bufo_melanostictus/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184892|Thorius_sp./1-109                           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184894|Bolitoglossa_rufescens/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184898|Geotrypetes_seraphini/1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184900|Scolecomorphus_vittatus/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184902|Batrachuperus_pinchonii/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184906|Bufo_latifrons/1-109                        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184908|Huia_nasica/1-109                           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184910|Wolterstorffina_parvipa/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184912|Trichobatrachus_robustu/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184916|Conraua_robusta/1-109                       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184918|Werneria_mertensi/1-109                     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184922|Astylosternus_schioetzi/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184926|Crotaphatrema_tchabalmb/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184928|Phlyctimantis_leonardi/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4 4
                                                      3 3
                                                      2 2
                                                      1 1
90184874|Eleutherodactylus_nitid/1-109                ..................................   109
90184878|Craugastor_alfredi/1-109                     ..................................   109
90184880|Latimeria_chalumnae/1-109                   ..................................   109
90184882|Rhinoderma_darwinii/1-109                   ..................................   109
90184886|Arenophryne_sp./1-109                       ..................................   109
90184890|Bufo_melanostictus/1-109                    ..................................   109
90184892|Thorius_sp./1-109                           ..................................   109
90184894|Bolitoglossa_rufescens/1-109                ..................................   109
90184898|Geotrypetes_seraphini/1-109                 ..................................   109
90184900|Scolecomorphus_vittatus/1-109               ..................................   109
90184902|Batrachuperus_pinchonii/1-109               ..................................   109
90184906|Bufo_latifrons/1-109                        ..................................   109
90184908|Huia_nasica/1-109                           ..................................   109
90184910|Wolterstorffina_parvipa/1-109               ..................................   109
90184912|Trichobatrachus_robustu/1-109               ..................................   109
90184916|Conraua_robusta/1-109                       ..................................   109
90184918|Werneria_mertensi/1-109                     ..................................   109
90184922|Astylosternus_schioetzi/1-109               ..................................   109
90184926|Crotaphatrema_tchabalmb/1-109               ..................................   109
90184928|Phlyctimantis_leonardi/1-109                ..................................   109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90184930|Occidozyga_martensii/1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184934|Herpele_squalostoma/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184936|Nectophryne_afra/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184940|Nyctibates_corrugatus/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184944|Leptodactylodon_bicolor/1-109  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184946|Rana_chapaensis/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184948|Scotobleps_gabonicus/1-109     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184950|Amnirana_albilabris/1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184952|Limnonectes_kuhlii/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184954|Fejervarya_limnocharis/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184958|Odorrana_chapaensis/1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184960|Rana_maosonensis/1-109         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
238817471|Torleya_major/1-121           ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     116
90184966|Bufo_galeatus/1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184970|Limnonectes_poilani/1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184976|Leptolalax_bourreti/1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184980|Rana_palmipes/1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184982|Rhinatrema_bivittatum/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184984|Phrynopus_sp./1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
90184986|Yunganastes_pluvicanoru/1-109  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                      RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

90184930|Occidozyga_martensii/1-109      ..............................     109
90184934|Herpele_squalostoma/1-109       ..............................     109
90184936|Nectophryne_afra/1-109          ..............................     109
90184940|Nyctibates_corrugatus/1-109     ..............................     109
90184944|Leptodactylodon_bicolor/1-109   ..............................     109
90184946|Rana_chapaensis/1-109           ..............................     109
90184948|Scotobleps_gabonicus/1-109      ..............................     109
90184950|Amnirana_albilabris/1-109       ..............................     109
90184952|Limnonectes_kuhlii/1-109        ..............................     109
90184954|Fejervarya_limnocharis/1-109    ..............................     109
90184958|Odorrana_chapaensis/1-109       ..............................     109
90184960|Rana_maosonensis/1-109          ..............................     109
238817471|Torleya_major/1-121            VXIMP.........................     121
90184966|Bufo_galeatus/1-109             ..............................     109
90184970|Limnonectes_poilani/1-109       ..............................     109
90184976|Leptolalax_bourreti/1-109       ..............................     109
90184980|Rana_palmipes/1-109             ..............................     109
90184982|Rhinatrema_bivittatum/1-109     ..............................     109
90184984|Phrynopus_sp./1-109             ..............................     109
90184986|Yunganastes_pluvicanoru/1-109   ..............................     109
consensus
```

X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                      4 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                          3                                                                                                                                 3
                                          2                                                                                                                                 2
                                          1                                                                                                                                 1

90184992|Hyperolius_puncticulatu/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90184998|Tylototriton_shanjing/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185004|Hyperolius_tuberilingui/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185008|Amietia_vertebralis/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185010|Tomopterna_delalandii/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185012|Leptodactylus_fuscus/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185014|Elachistocleis_ovalis/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185016|Caecilia_tentaculata/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185020|Bombina_microdeladigito/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185022|Plethodontohyla_sp./1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185024|Scaphiophryne_marmorata/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185026|Platypelis_grandis/1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185028|Stumpffia_cf./1-109             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185030|Nectophrynoides_tornier/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185034|Petropedetes_yakusini/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185036|Breviceps_mossambicus/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185038|Hoplophryne_rogersi/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185040|Notophthalmus_viridesce/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185042|Microhyla_sp./1-109              ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
90185044|Agalychnis_callidryas/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
consensus                                 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                      4                                 4
                                          3                                 3
                                          2                                 2
                                          1                                 1

90184992|Hyperolius_puncticulatu/1-109    ..............................    109
90184998|Tylototriton_shanjing/1-109      ..............................    109
90185004|Hyperolius_tuberilingui/1-109    ..............................    109
90185008|Amietia_vertebralis/1-109        ..............................    109
90185010|Tomopterna_delalandii/1-109      ..............................    109
90185012|Leptodactylus_fuscus/1-109       ..............................    109
90185014|Elachistocleis_ovalis/1-109      ..............................    109
90185016|Caecilia_tentaculata/1-109       ..............................    109
90185020|Bombina_microdeladigito/1-109    ..............................    109
90185022|Plethodontohyla_sp./1-109        ..............................    109
90185024|Scaphiophryne_marmorata/1-109    ..............................    109
90185026|Platypelis_grandis/1-109         ..............................    109
90185028|Stumpffia_cf./1-109              ..............................    109
90185030|Nectophrynoides_tornier/1-109    ..............................    109
90185034|Petropedetes_yakusini/1-109      ..............................    109
90185036|Breviceps_mossambicus/1-109      ..............................    109
90185038|Hoplophryne_rogersi/1-109        ..............................    109
90185040|Notophthalmus_viridesce/1-109    ..............................    109
90185042|Microhyla_sp./1-109              ..............................    109
90185044|Agalychnis_callidryas/1-109      ..............................    109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
90185046|Phrynobatrachus_mababie/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185048|Schismaderma_carens/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185050|Gastrophryne_elegans/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185052|Arthroleptis_tanneri/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185054|Callulina_kisiwamsitu/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185056|Hemisus_marmoratus/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
269969451|Etisus_splendidus/1-115   ...................IQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   113
90185058|Arthroleptis_xenodactyl/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185062|Leptodactylus_discodact/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185064|Dyscophus_guineti/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185066|Discoglossus_pictus/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185068|Kassina_senegalensis/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185070|Hamptophryne_boliviana/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185072|Caudiverbera_caudiverbe/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185074|Salamandra_salamandra/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185076|Triturus_cristatus/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185080|Taricha_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185082|Pleurodeles_waltl/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185084|Pachytriton_brevipes/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185086|Heterixalus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                                RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

90185046|Phrynobatrachus_mababie/1-109   ..............................   109
90185048|Schismaderma_carens/1-109   ..............................   109
90185050|Gastrophryne_elegans/1-109   ..............................   109
90185052|Arthroleptis_tanneri/1-109   ..............................   109
90185054|Callulina_kisiwamsitu/1-109   ..............................   109
90185056|Hemisus_marmoratus/1-109   ..............................   109
269969451|Etisus_splendidus/1-115   VT............................   115
90185058|Arthroleptis_xenodactyl/1-109   ..............................   109
90185062|Leptodactylus_discodact/1-109   ..............................   109
90185064|Dyscophus_guineti/1-109   ..............................   109
90185066|Discoglossus_pictus/1-109   ..............................   109
90185068|Kassina_senegalensis/1-109   ..............................   109
90185070|Hamptophryne_boliviana/1-109   ..............................   109
90185072|Caudiverbera_caudiverbe/1-109   ..............................   109
90185074|Salamandra_salamandra/1-109   ..............................   109
90185076|Triturus_cristatus/1-109   ..............................   109
90185080|Taricha_sp./1-109   ..............................   109
90185082|Pleurodeles_waltl/1-109   ..............................   109
90185084|Pachytriton_brevipes/1-109   ..............................   109
90185086|Heterixalus_sp./1-109   ..............................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

90185090|Tachycnemis_seychellens/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185092|Nesomantis_thomasseti/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185094|Hyalinobatrachium_fleis/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90185096|Pseudoeurycea_conanti/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065266|Grylloblatta_rothi/1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065268|Grylloblatta_sp./1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065270|Grylloblatta_sp./1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065274|Grylloblatta_n./1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065276|Grylloblatta_sp./1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065278|Grylloblatta_chirurgica/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065280|Grylloblatta_gurneyi/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065286|Galloisiana_yuasai/1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065292|Galloisiana_nipponensis/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065296|Grylloblattina_djakonov/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065300|Grylloblattina_djakonov/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065304|Grylloblatta_sp./1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065318|Grylloblatta_sp./1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065320|Grylloblatta_campodeifo/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91065322|Tyrannophasma_gladiator/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
91719014|Nymphon_brevicaudatum/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                            RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

90185090|Tachycnemis_seychellens/1-109   ..............................   109
90185092|Nesomantis_thomasseti/1-109     ..............................   109
90185094|Hyalinobatrachium_fleis/1-109   ..............................   109
90185096|Pseudoeurycea_conanti/1-109    ..............................   109
91065266|Grylloblatta_rothi/1-109        ..............................   109
91065268|Grylloblatta_sp./1-109          ..............................   109
91065270|Grylloblatta_sp./1-109          ..............................   109
91065274|Grylloblatta_n./1-109           ..............................   109
91065276|Grylloblatta_sp./1-109          ..............................   109
91065278|Grylloblatta_chirurgica/1-109   ..............................   109
91065280|Grylloblatta_gurneyi/1-109      ..............................   109
91065286|Galloisiana_yuasai/1-109        ..............................   109
91065292|Galloisiana_nipponensis/1-109   ..............................   109
91065296|Grylloblattina_djakonov/1-109   ..............................   109
91065300|Grylloblattina_djakonov/1-109   ..............................   109
91065304|Grylloblatta_sp./1-109          ..............................   109
91065318|Grylloblatta_sp./1-109          ..............................   109
91065320|Grylloblatta_campodeifo/1-109   ..............................   109
91065322|Tyrannophasma_gladiator/1-109   ..............................   109
91719014|Nymphon_brevicaudatum/1-109     ..............................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
61677519|Lepetodrilus_ovalis/1-125          ...............MARTKQTXRK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
30140416|Poseidonemertes_sp./1-110          ......................XRK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
58199405|Retroculus_xinguensis/1-110        ......................XRK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
91719016|Austrodecus_glaciale/1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
91719054|Rhynchothorax_australis/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
91719076|Ammothella_spinifera/1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
91719108|Ammothea_hilgendorfi/1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
91719112|Achelia_alaskensis/1-109            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
92399784|Aphanarthrum_subglabrum/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
92399794|Aphanarthrum_glabrum/1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
92399804|Aphanarthrum_glabrum/1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
94014460|Copelatus_sp./1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
94014465|Copelatus_sp./1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
94014470|Copelatus_sp./1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
94014475|Copelatus_sp./1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
94014479|Copelatus_sp./1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
94014484|Copelatus_sp./1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
94014489|Copelatus_sp./1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
94014494|Copelatus_sp./1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
94014499|Copelatus_sp./1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                              RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

61677519|Lepetodrilus_ovalis/1-125          VTIMPKDI.............................     125
30140416|Poseidonemertes_sp./1-110          ......................................     110
58199405|Retroculus_xinguensis/1-110        ......................................     110
91719016|Austrodecus_glaciale/1-109         ......................................     109
91719054|Rhynchothorax_australis/1-109      ......................................     109
91719076|Ammothella_spinifera/1-109         ......................................     109
91719108|Ammothea_hilgendorfi/1-109         ......................................     109
91719112|Achelia_alaskensis/1-109           ......................................     109
92399784|Aphanarthrum_subglabrum/1-109      ......................................     109
92399794|Aphanarthrum_glabrum/1-109         ......................................     109
92399804|Aphanarthrum_glabrum/1-109         ......................................     109
94014460|Copelatus_sp./1-109                ......................................     109
94014465|Copelatus_sp./1-109                ......................................     109
94014470|Copelatus_sp./1-109                ......................................     109
94014475|Copelatus_sp./1-109                ......................................     109
94014479|Copelatus_sp./1-109                ......................................     109
94014484|Copelatus_sp./1-109                ......................................     109
94014489|Copelatus_sp./1-109                ......................................     109
94014494|Copelatus_sp./1-109                ......................................     109
94014499|Copelatus_sp./1-109                ......................................     109
consensus
```

X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                   4 3 2 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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94014504|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014508|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014513|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014519|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014534|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014539|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014544|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014549|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014554|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014559|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014564|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014569|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014573|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014578|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014598|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014607|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
297040810|Callobius_bennetti/1-124    ...............MALXKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVTXMP     122
94014612|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014617|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
94014627|Copelatus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR.....     109
consensus                                                        RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                   4 3 2 1                                 4 3 2 1
94014504|Copelatus_sp./1-109           ............................     109
94014508|Copelatus_sp./1-109           ............................     109
94014513|Copelatus_sp./1-109           ............................     109
94014519|Copelatus_sp./1-109           ............................     109
94014534|Copelatus_sp./1-109           ............................     109
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94014549|Copelatus_sp./1-109           ............................     109
94014554|Copelatus_sp./1-109           ............................     109
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94014564|Copelatus_sp./1-109           ............................     109
94014569|Copelatus_sp./1-109           ............................     109
94014573|Copelatus_sp./1-109           ............................     109
94014578|Copelatus_sp./1-109           ............................     109
94014598|Copelatus_sp./1-109           ............................     109
94014607|Copelatus_sp./1-109           ............................     109
297040810|Callobius_bennetti/1-124    KD..........................     124
94014612|Copelatus_sp./1-109           ............................     109
94014617|Copelatus_sp./1-109           ............................     109
94014627|Copelatus_sp./1-109           ............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                  4 3 2 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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94014641|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014645|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014655|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014660|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014665|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014669|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014674|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014679|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014684|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014688|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014692|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014696|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014701|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014706|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014710|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014721|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014725|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014735|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014740|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014745|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
consensus                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                  4 3 2 1                                  4 3 2 1
94014641|Copelatus_sp./1-109   .......................  109
94014645|Copelatus_sp./1-109   .......................  109
94014655|Copelatus_sp./1-109   .......................  109
94014660|Copelatus_sp./1-109   .......................  109
94014665|Copelatus_sp./1-109   .......................  109
94014669|Copelatus_sp./1-109   .......................  109
94014674|Copelatus_sp./1-109   .......................  109
94014679|Copelatus_sp./1-109   .......................  109
94014684|Copelatus_sp./1-109   .......................  109
94014688|Copelatus_sp./1-109   .......................  109
94014692|Copelatus_sp./1-109   .......................  109
94014696|Copelatus_sp./1-109   .......................  109
94014701|Copelatus_sp./1-109   .......................  109
94014706|Copelatus_sp./1-109   .......................  109
94014710|Copelatus_sp./1-109   .......................  109
94014721|Copelatus_sp./1-109   .......................  109
94014725|Copelatus_sp./1-109   .......................  109
94014735|Copelatus_sp./1-109   .......................  109
94014740|Copelatus_sp./1-109   .......................  109
94014745|Copelatus_sp./1-109   .......................  109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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94014753|Copelatus_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
94014758|Copelatus_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
94014762|Copelatus_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
94014767|Copelatus_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
94014772|Copelatus_sp./1-109                                                                                                                                                                                                                                                                                                                                
94014776|Copelatus_sp./1-109                                                                                                
94014781|Copelatus_sp./1-109                                                
94014786|Copelatus_sp./1-109                                
94014792|Copelatus_sp./1-109                
94014796|Copelatus_sp./1-109                
30140264|Nemertellina_yamaokai/1-110                
30140276|Poseidonemertes_collari/1-110                
94014801|Copelatus_sp./1-109                
94014812|Copelatus_sp./1-109                
94014817|Copelatus_sp./1-109                
94014822|Copelatus_sp./1-109                
94014826|Copelatus_sp./1-109                
94014831|Copelatus_sp./1-109                
94014836|Copelatus_sp./1-109                
94014841|Copelatus_sp./1-109                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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94014753|Copelatus_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
94014758|Copelatus_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
94014762|Copelatus_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
94014767|Copelatus_sp./1-109                                                                                                
94014772|Copelatus_sp./1-109                
94014776|Copelatus_sp./1-109                
94014781|Copelatus_sp./1-109                
94014786|Copelatus_sp./1-109                
94014792|Copelatus_sp./1-109                
94014796|Copelatus_sp./1-109                
30140264|Nemertellina_yamaokai/1-110                
30140276|Poseidonemertes_collari/1-110                
94014801|Copelatus_sp./1-109                
94014812|Copelatus_sp./1-109                
94014817|Copelatus_sp./1-109                
94014822|Copelatus_sp./1-109                
94014826|Copelatus_sp./1-109                
94014831|Copelatus_sp./1-109                
94014836|Copelatus_sp./1-109                
94014841|Copelatus_sp./1-109                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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94014846|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014851|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014856|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014861|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014866|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014871|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014876|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014881|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014885|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014890|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014895|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014900|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014905|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014933|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014944|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014954|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014973|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014983|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014988|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
94014993|Copelatus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR..........  109
consensus                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                  4 3 2 1
94014846|Copelatus_sp./1-109   .......................  109
94014851|Copelatus_sp./1-109   .......................  109
94014856|Copelatus_sp./1-109   .......................  109
94014861|Copelatus_sp./1-109   .......................  109
94014866|Copelatus_sp./1-109   .......................  109
94014871|Copelatus_sp./1-109   .......................  109
94014876|Copelatus_sp./1-109   .......................  109
94014881|Copelatus_sp./1-109   .......................  109
94014885|Copelatus_sp./1-109   .......................  109
94014890|Copelatus_sp./1-109   .......................  109
94014895|Copelatus_sp./1-109   .......................  109
94014900|Copelatus_sp./1-109   .......................  109
94014905|Copelatus_sp./1-109   .......................  109
94014933|Copelatus_sp./1-109   .......................  109
94014944|Copelatus_sp./1-109   .......................  109
94014954|Copelatus_sp./1-109   .......................  109
94014973|Copelatus_sp./1-109   .......................  109
94014983|Copelatus_sp./1-109   .......................  109
94014988|Copelatus_sp./1-109   .......................  109
94014993|Copelatus_sp./1-109   .......................  109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                  4 ┐                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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2 ┤                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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94014998|Copelatus_sp./1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
94015003|Copelatus_sp./1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
94015008|Copelatus_sp./1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
94015013|Copelatus_sp./1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
94015018|Copelatus_sp./1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
187948551|Placopecten_magellanic/1-112          ...................GTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     112
188037184|Microsepsis_armillata/1-112           ....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     111
98365329|Fangensis_cavernarus/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365331|Chileogovea_sp./1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365335|Parapurcellia_monticola/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365337|Parapurcellia_silvicola/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365339|Pettalus_sp./1-109                     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365341|Pettalus_brevicauda/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365343|Pettalus_sp./1-109                     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365345|Pettalus_sp./1-109                     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365347|Pettalus_sp./1-109                     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365349|Pettalus_sp./1-109                     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365361|Rakaia_daviesae/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365365|Neopurcellia_minutissim/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365367|Rakaia_antipodiana/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                         RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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3 ┤                                                                                 ├ 3
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1 ┘                                                                                 └ 1

94014998|Copelatus_sp./1-109                  ..............................     109
94015003|Copelatus_sp./1-109                  ..............................     109
94015008|Copelatus_sp./1-109                  ..............................     109
94015013|Copelatus_sp./1-109                  ..............................     109
94015018|Copelatus_sp./1-109                  ..............................     109
187948551|Placopecten_magellanic/1-112        ..............................     112
188037184|Microsepsis_armillata/1-112         X.............................     112
98365329|Fangensis_cavernarus/1-109           ..............................     109
98365331|Chileogovea_sp./1-109                ..............................     109
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98365337|Parapurcellia_silvicola/1-109        ..............................     109
98365339|Pettalus_sp./1-109                   ..............................     109
98365341|Pettalus_brevicauda/1-109            ..............................     109
98365343|Pettalus_sp./1-109                   ..............................     109
98365345|Pettalus_sp./1-109                   ..............................     109
98365347|Pettalus_sp./1-109                   ..............................     109
98365349|Pettalus_sp./1-109                   ..............................     109
98365361|Rakaia_daviesae/1-109                ..............................     109
98365365|Neopurcellia_minutissim/1-109        ..............................     109
98365367|Rakaia_antipodiana/1-109             ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
98365369|Rakaia_magna/1-109                  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365379|Rakaia_media/1-109                   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365383|Rakaia_inerma/1-109                  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365395|Troglosiro_longifossa/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365397|Suzukielus_sauteri/1-109             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98365399|Huitaca_sp./1-109                    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98374097|Anomaloglossus_baeobatr/1-109        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98374101|Hyloxalus_delatorreae/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98374103|Epipedobates_machalilla/1-109        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98374105|Allobates_trilineatus/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98374107|Hyloxalus_nexipus/1-109              ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98374109|Hyloxalus_sylvaticus/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98374111|Hyloxalus_idiomelus/1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98374117|Hyloxalus_elachyhistus/1-109         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98374119|Ameerega_hahneli/1-109               ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98374137|Allobates_cf./1-109                  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98374139|Anomaloglossus_degranvi/1-109        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98374143|Ameerega_trivittata/1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98374147|Allobates_talamancae/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
98374149|Allobates_zaparo/1-109               ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                     RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

98365369|Rakaia_magna/1-109                  ..................................     109
98365379|Rakaia_media/1-109                   ..................................     109
98365383|Rakaia_inerma/1-109                  ..................................     109
98365395|Troglosiro_longifossa/1-109          ..................................     109
98365397|Suzukielus_sauteri/1-109             ..................................     109
98365399|Huitaca_sp./1-109                    ..................................     109
98374097|Anomaloglossus_baeobatr/1-109        ..................................     109
98374101|Hyloxalus_delatorreae/1-109          ..................................     109
98374103|Epipedobates_machalilla/1-109        ..................................     109
98374105|Allobates_trilineatus/1-109          ..................................     109
98374107|Hyloxalus_nexipus/1-109              ..................................     109
98374109|Hyloxalus_sylvaticus/1-109           ..................................     109
98374111|Hyloxalus_idiomelus/1-109            ..................................     109
98374117|Hyloxalus_elachyhistus/1-109         ..................................     109
98374119|Ameerega_hahneli/1-109               ..................................     109
98374137|Allobates_cf./1-109                  ..................................     109
98374139|Anomaloglossus_degranvi/1-109        ..................................     109
98374143|Ameerega_trivittata/1-109            ..................................     109
98374147|Allobates_talamancae/1-109           ..................................     109
98374149|Allobates_zaparo/1-109               ..................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
109159188|Neoscopelus_macrolepid/1-110   .....................CRK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
98374151|Phyllobates_lugubris/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374153|Ameerega_pulchripecta/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374157|Oophaga_granulifera/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374161|Oophaga_speciosa/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374163|Hyloxalus_bocagei/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374167|Colostethus_sp./1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374171|Oophaga_sylvatica/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374175|Ranitomeya_vanzolinii/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374179|Ranitomeya_ventrimacula/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374181|Colostethus_sp./1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374183|Colostethus_sp./1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374187|Hyloxalus_chlorocrasped/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374199|Ameerega_bilinguis/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374205|Allobates_nidicola/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374207|Silverstoneia_nubicola/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374211|Ranitomeya_fulgurita/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374213|Anomaloglossus_stepheni/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374217|Ameerega_petersi/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
98374219|Ranitomeya_reticulata/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                                   RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

109159188|Neoscopelus_macrolepid/1-110   ..............................   110
98374151|Phyllobates_lugubris/1-109   ..............................   109
98374153|Ameerega_pulchripecta/1-109   ..............................   109
98374157|Oophaga_granulifera/1-109   ..............................   109
98374161|Oophaga_speciosa/1-109   ..............................   109
98374163|Hyloxalus_bocagei/1-109   ..............................   109
98374167|Colostethus_sp./1-109   ..............................   109
98374171|Oophaga_sylvatica/1-109   ..............................   109
98374175|Ranitomeya_vanzolinii/1-109   ..............................   109
98374179|Ranitomeya_ventrimacula/1-109   ..............................   109
98374181|Colostethus_sp./1-109   ..............................   109
98374183|Colostethus_sp./1-109   ..............................   109
98374187|Hyloxalus_chlorocrasped/1-109   ..............................   109
98374199|Ameerega_bilinguis/1-109   ..............................   109
98374205|Allobates_nidicola/1-109   ..............................   109
98374207|Silverstoneia_nubicola/1-109   ..............................   109
98374211|Ranitomeya_fulgurita/1-109   ..............................   109
98374213|Anomaloglossus_stepheni/1-109   ..............................   109
98374217|Ameerega_petersi/1-109   ..............................   109
98374219|Ranitomeya_reticulata/1-109   ..............................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

98374221|Adelphobates_galactonot/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374227|Ameerega_flavopicta/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374231|Allobates_alagoanus/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374233|Anomaloglossus_beebei/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374235|Anomaloglossus_tepuyens/1-109 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374237|Colostethus_sp./1-109         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374243|Allobates_brunneus/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374245|Allobates_conspicuus/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374247|Colostethus_sp./1-109         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374255|Dendrobates_leucomelas/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374257|Epipedobates_anthonyi/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374261|Aromobates_nocturnus/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374263|Ameerega_macero/1-109         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374267|Phyllobates_terribilis/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374269|Silverstoneia_flotator/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374277|Oophaga_vicentei/1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374285|Thoropa_miliaris/1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374287|Colostethus_panamansis/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374289|Colostethus_pratti/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98374305|Aromobates_sp./1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                               RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

98374221|Adelphobates_galactonot/1-109  ..............................  109
98374227|Ameerega_flavopicta/1-109     ..............................  109
98374231|Allobates_alagoanus/1-109     ..............................  109
98374233|Anomaloglossus_beebei/1-109   ..............................  109
98374235|Anomaloglossus_tepuyens/1-109 ..............................  109
98374237|Colostethus_sp./1-109         ..............................  109
98374243|Allobates_brunneus/1-109      ..............................  109
98374245|Allobates_conspicuus/1-109    ..............................  109
98374247|Colostethus_sp./1-109         ..............................  109
98374255|Dendrobates_leucomelas/1-109  ..............................  109
98374257|Epipedobates_anthonyi/1-109   ..............................  109
98374261|Aromobates_nocturnus/1-109   ..............................  109
98374263|Ameerega_macero/1-109         ..............................  109
98374267|Phyllobates_terribilis/1-109  ..............................  109
98374269|Silverstoneia_flotator/1-109  ..............................  109
98374277|Oophaga_vicentei/1-109        ..............................  109
98374285|Thoropa_miliaris/1-109        ..............................  109
98374287|Colostethus_panamansis/1-109  ..............................  109
98374289|Colostethus_pratti/1-109     ..............................  109
98374305|Aromobates_sp./1-109          ..............................  109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
98374307|Mannophryne_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
98374309|Mannophryne_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
98374311|Mannophryne_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
98374315|Dendrobates_tinctorius/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
98374317|Colostethus_sp./1-109                                                                                                                                                                                                                                                                                                                                
98374319|Dendrobates_azureus/1-109                                                                                                                                                                                                                                                                                                                                
98374321|Ameerega_picta/1-109                                                                                                                                                                                                                                                                                                                                
98374323|Colostethus_sp./1-109                                                                                                                                                                                                                                                                                                                                
98374327|Anomaloglossus_praderio/1-109                                                                                                                                                                                                                                                                                                                
98374329|Anomaloglossus_roraima/1-109                                                                                                                                                                                                                                                                                                                
98374335|Colostethus_sp./1-109                                                                                                                                                                                                                                                                                                                                
98374337|Colostethus_inguinalis/1-109                                                                                                                                                                                                                                                                                                                
98374349|Allobates_juanii/1-109                                                                                                                                                                                                                                                                                                                
98374351|Colostethus_sp./1-109                                                                                                                                                                                                                                                                                                                                
98374355|Aromobates_saltuensis/1-109                                                                                                                                                                                                                                                                                                                
106896122|Strombus_pugilis/1-109                                                                                                                                                                                                                                                                                                                
106896124|Strombus_alatus/1-109                                                                                                                                                                                                                                                                                                                
106896128|Strombus_canarium/1-109                                                                                                                                                                                                                                                                                                                
106896132|Strombus_fusiformis/1-109                                                                                                                                                                                                                                                                                                                
106896134|Strombus_haemastoma/1-109                                                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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98374307|Mannophryne_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
98374309|Mannophryne_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
98374311|Mannophryne_sp./1-109                                                                                                                                                                                                                                                                                                                                
98374315|Dendrobates_tinctorius/1-109                                                                                                                                                                                                                                                                                                                
98374317|Colostethus_sp./1-109                                                                                                                                                                                                                                                                                                                
98374319|Dendrobates_azureus/1-109                                                                                                                                                                                                                                                                                                                
98374321|Ameerega_picta/1-109                                                                                                                                                                                                                                                                                                                
98374323|Colostethus_sp./1-109                                                                                                                                                                                                                                                                                                                
98374327|Anomaloglossus_praderio/1-109                                                                                                                                                                                                                                                                                                                
98374329|Anomaloglossus_roraima/1-109                                                                                                                                                                                                                                                                                                                
98374335|Colostethus_sp./1-109                                                                                                                                                                                                                                                                                                                
98374337|Colostethus_inguinalis/1-109                                                                                                                                                                                                                                                                                                                
98374349|Allobates_juanii/1-109                                                                                                                                                                                                                                                                                                                
98374351|Colostethus_sp./1-109                                                                                                                                                                                                                                                                                                                
98374355|Aromobates_saltuensis/1-109                                                                                                                                                                                                                                                                                                                
106896122|Strombus_pugilis/1-109                                                                                                                                                                                                                                                                                                                
106896124|Strombus_alatus/1-109                                                                                                                                                                                                                                                                                                                
106896128|Strombus_canarium/1-109                                                                                                                                                                                                                                                                                                                
106896132|Strombus_fusiformis/1-109                                                                                                                                                                                                                                                                                                                
106896134|Strombus_haemastoma/1-109                                                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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106896136|Strombus_wilsoni/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896140|Strombus_fragilis/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896142|Strombus_maculatus/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896146|Strombus_microurceus/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896150|Strombus_gallus/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896152|Strombus_gigas/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896154|Strombus_granulatus/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896156|Strombus_latus/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896160|Strombus_costatus/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896164|Strombus_peruvianus/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896166|Strombus_taurus/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896170|Strombus_labiatus/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896174|Strombus_epidromis/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896176|Strombus_vittatus/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896178|Strombus_bulla/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896180|Strombus_aurisdianae/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896182|Strombus_vomer/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896184|Strombus_urceus/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896186|Lambis_chiragra/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
106896188|Lambis_lambis/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                       RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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106896136|Strombus_wilsoni/1-109          ..............................     109
106896140|Strombus_fragilis/1-109          ..............................     109
106896142|Strombus_maculatus/1-109         ..............................     109
106896146|Strombus_microurceus/1-109       ..............................     109
106896150|Strombus_gallus/1-109            ..............................     109
106896152|Strombus_gigas/1-109             ..............................     109
106896154|Strombus_granulatus/1-109        ..............................     109
106896156|Strombus_latus/1-109             ..............................     109
106896160|Strombus_costatus/1-109          ..............................     109
106896164|Strombus_peruvianus/1-109        ..............................     109
106896166|Strombus_taurus/1-109            ..............................     109
106896170|Strombus_labiatus/1-109          ..............................     109
106896174|Strombus_epidromis/1-109         ..............................     109
106896176|Strombus_vittatus/1-109          ..............................     109
106896178|Strombus_bulla/1-109             ..............................     109
106896180|Strombus_aurisdianae/1-109       ..............................     109
106896182|Strombus_vomer/1-109             ..............................     109
106896184|Strombus_urceus/1-109            ..............................     109
106896186|Lambis_chiragra/1-109            ..............................     109
106896188|Lambis_lambis/1-109              ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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106896190|Lambis_truncata/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
106896192|Aporrhais_pespelecani/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
109676724|Epeorus_latifolium/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
110555247|Portia_cf./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
110555259|Euophrys_monadnock/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
110627780|Ampharete_acutifrons/1-109                                                                                
110627782|Antarctodrilus_probosc/1-109                                                                
110627784|Aphelochaeta_marioni/1-109                                                                
110627790|Artacamella_tribranchi/1-109                                                                
110627792|Bonellia_sp./1-109                                                                
110627794|Chitinopoma_serrula/1-109                                                                
110627802|Cossura_sp./1-109                                                                
110627806|Eisenia_andrei/1-109                                                                
110627808|Erpobdella_octoculata/1-109                                                                
110627810|Eteone_picta/1-109                                                                
110627816|Glossiphonia_complanat/1-109                                                                
110627822|Heronidrilus_gravidus/1-109                                                                
110627826|Hirudo_medicinalis/1-109                                                                
110627828|Lepidonotus_squamatus/1-109                                                                
110627832|Macrochaeta_clavicorni/1-109                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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106896190|Lambis_truncata/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
106896192|Aporrhais_pespelecani/1-109                                                                
109676724|Epeorus_latifolium/1-109                                                                
110555247|Portia_cf./1-109                                                                
110555259|Euophrys_monadnock/1-109                                                                
110627780|Ampharete_acutifrons/1-109                                                                
110627782|Antarctodrilus_probosc/1-109                                                                
110627784|Aphelochaeta_marioni/1-109                                                                
110627790|Artacamella_tribranchi/1-109                                                                
110627792|Bonellia_sp./1-109                                                                
110627794|Chitinopoma_serrula/1-109                                                                
110627802|Cossura_sp./1-109                                                                
110627806|Eisenia_andrei/1-109                                                                
110627808|Erpobdella_octoculata/1-109                                                                
110627810|Eteone_picta/1-109                                                                
110627816|Glossiphonia_complanat/1-109                                                                
110627822|Heronidrilus_gravidus/1-109                                                                
110627826|Hirudo_medicinalis/1-109                                                                
110627828|Lepidonotus_squamatus/1-109                                                                
110627832|Macrochaeta_clavicorni/1-109                                                                
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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110627834|Magelona_sp./1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627836|Marphysa_bellii/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627838|Melinna_cristata/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627840|Nematonereis_sp./1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627846|Notophyllum_foliosum/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627850|Owenia_sp./1-109                       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627852|Paralacydonia_paradoxa/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627854|Phyllochaetopterus_sp./1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627856|Phyllochaetopterus_sp./1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627860|Poeobius_meseres/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627862|Polydora_giardi/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627866|Polyphysia_crassa/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627870|Protodrilus_purpureus/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627872|Protula_sp./1-109                      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627874|Sabella_penicillus/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627876|Sabellaria_alveolata/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627878|Scalibregma_inflatum/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627880|Siboglinum_fiordicum/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627882|Sternaspis_sp./1-109                   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110627884|Sthenelais_boa/1-109                   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                         RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

110627834|Magelona_sp./1-109                  ..................................     109
110627836|Marphysa_bellii/1-109                ..................................     109
110627838|Melinna_cristata/1-109                ..................................     109
110627840|Nematonereis_sp./1-109                ..................................     109
110627846|Notophyllum_foliosum/1-109            ..................................     109
110627850|Owenia_sp./1-109                      ..................................     109
110627852|Paralacydonia_paradoxa/1-109          ..................................     109
110627854|Phyllochaetopterus_sp./1-109          ..................................     109
110627856|Phyllochaetopterus_sp./1-109          ..................................     109
110627860|Poeobius_meseres/1-109                ..................................     109
110627862|Polydora_giardi/1-109                 ..................................     109
110627866|Polyphysia_crassa/1-109               ..................................     109
110627870|Protodrilus_purpureus/1-109           ..................................     109
110627872|Protula_sp./1-109                     ..................................     109
110627874|Sabella_penicillus/1-109              ..................................     109
110627876|Sabellaria_alveolata/1-109            ..................................     109
110627878|Scalibregma_inflatum/1-109            ..................................     109
110627880|Siboglinum_fiordicum/1-109            ..................................     109
110627882|Sternaspis_sp./1-109                  ..................................     109
110627884|Sthenelais_boa/1-109                  ..................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                 3
                                                      2                                                                                                                                                 2
                                                      1                                                                                                                                                 1
110627886|Terebratulina_retusa/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
110627888|Thelepus_cincinnatus/1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
110627890|Travisia_forbesii/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620912|Cybister_brevis/1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620914|Cybister_burgeoni/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620916|Cybister_cardoni/1-109                     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620918|Cybister_cognatus/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620920|Cybister_convexus/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620922|Cybister_cinctus/1-109                     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620924|Cybister_explanatus/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620928|Cybister_gschwendtneri/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620930|Cybister_guerini/1-109                     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620932|Cybister_immarginatus/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620934|Cybister_japonicus/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620936|Cybister_lateralimargi/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620938|Cybister_marginicollis/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620940|Cybister_posticus/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620942|Cybister_puncticollis/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620944|Cybister_senegalensis/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
111620946|Cybister_sugillatus/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4 4
                                                      3 3
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110627886|Terebratulina_retusa/1-109                  ..................................   109
110627888|Thelepus_cincinnatus/1-109                 ..................................   109
110627890|Travisia_forbesii/1-109                    ..................................   109
111620912|Cybister_brevis/1-109                      ..................................   109
111620914|Cybister_burgeoni/1-109                    ..................................   109
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111620932|Cybister_immarginatus/1-109                ..................................   109
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111620936|Cybister_lateralimargi/1-109               ..................................   109
111620938|Cybister_marginicollis/1-109               ..................................   109
111620940|Cybister_posticus/1-109                    ..................................   109
111620942|Cybister_puncticollis/1-109                ..................................   109
111620944|Cybister_senegalensis/1-109                ..................................   109
111620946|Cybister_sugillatus/1-109                  ..................................   109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
111620948|Cybister_tripunctatus/1-109      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620950|Cybister_ventralis/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620952|Cybister_vicinus/1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620954|Cybister_vulneratus/1-109         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620956|Dytiscus_marginalis/1-109         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620958|Dytiscus_verticalis/1-109         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620960|Graphoderus_liberus/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620962|Hyderodes_shuckardi/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620964|Lancetes_lanceolatus/1-109         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620966|Lancetes_varius/1-109              ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620968|Megadytes_carcharias/1-109         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620970|Megadytes_fraternus/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620972|Megadytes_glaucus/1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620974|Megadytes_laevigatus/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620976|Megadytes_marginithora/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620978|Megadytes_robustus/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620980|Sternhydrus_atratus/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620982|Onychohydrus_scutellar/1-109        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620984|Spencerhydrus_latecinc/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
111620986|Spencerhydrus_pulchell/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                              RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

111620948|Cybister_tripunctatus/1-109      ..................................      109
111620950|Cybister_ventralis/1-109          ..................................      109
111620952|Cybister_vicinus/1-109            ..................................      109
111620954|Cybister_vulneratus/1-109         ..................................      109
111620956|Dytiscus_marginalis/1-109         ..................................      109
111620958|Dytiscus_verticalis/1-109         ..................................      109
111620960|Graphoderus_liberus/1-109         ..................................      109
111620962|Hyderodes_shuckardi/1-109         ..................................      109
111620964|Lancetes_lanceolatus/1-109        ..................................      109
111620966|Lancetes_varius/1-109             ..................................      109
111620968|Megadytes_carcharias/1-109        ..................................      109
111620970|Megadytes_fraternus/1-109         ..................................      109
111620972|Megadytes_glaucus/1-109           ..................................      109
111620974|Megadytes_laevigatus/1-109        ..................................      109
111620976|Megadytes_marginithora/1-109      ..................................      109
111620978|Megadytes_robustus/1-109          ..................................      109
111620980|Sternhydrus_atratus/1-109         ..................................      109
111620982|Onychohydrus_scutellar/1-109      ..................................      109
111620984|Spencerhydrus_latecinc/1-109      ..................................      109
111620986|Spencerhydrus_pulchell/1-109      ..................................      109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
113206726|Stylocellus_sp./1-109                  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
113206728|Stylocellus_sp./1-109                  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
113206730|Stylocellus_sp./1-109                  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
113206732|Pettalus_sp./1-109                      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
113206734|Pettalus_sp./1-109                      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
113206738|Metasiro_americanus/1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
113206740|Neogovea_sp./1-109                      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
113206742|Paragovia_sp./1-109                      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
117667942|Paraleptophlebia_spino/1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
117667944|Lepidostoma_speculifer/1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
117667946|Rhyacophila_nipponica/1-109             .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
145309426|Johora_counsilmani/1-109                .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
145309428|Johora_gapensis/1-109                   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
145309430|Johora_grallator/1-109                  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
145309432|Johora_gua/1-109                        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
145309434|Johora_intermedia/1-109                 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
145309436|Johora_johorensis/1-109                 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
145309438|Johora_murphyi/1-109                    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
145309440|Johora_punicea/1-109                    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
145309442|Johora_singaporensis/1-109              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                          RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

113206726|Stylocellus_sp./1-109                  ..............................     109
113206728|Stylocellus_sp./1-109                  ..............................     109
113206730|Stylocellus_sp./1-109                  ..............................     109
113206732|Pettalus_sp./1-109                     ..............................     109
113206734|Pettalus_sp./1-109                     ..............................     109
113206738|Metasiro_americanus/1-109              ..............................     109
113206740|Neogovea_sp./1-109                     ..............................     109
113206742|Paragovia_sp./1-109                    ..............................     109
117667942|Paraleptophlebia_spino/1-109           ..............................     109
117667944|Lepidostoma_speculifer/1-109           ..............................     109
117667946|Rhyacophila_nipponica/1-109            ..............................     109
145309426|Johora_counsilmani/1-109               ..............................     109
145309428|Johora_gapensis/1-109                  ..............................     109
145309430|Johora_grallator/1-109                 ..............................     109
145309432|Johora_gua/1-109                       ..............................     109
145309434|Johora_intermedia/1-109                ..............................     109
145309436|Johora_johorensis/1-109                ..............................     109
145309438|Johora_murphyi/1-109                   ..............................     109
145309440|Johora_punicea/1-109                   ..............................     109
145309442|Johora_singaporensis/1-109             ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
145309444|Johora_tahanensis/1-109
145309446|Johora_thoi/1-109
145309448|Johora_tiomanensis/1-109
145309450|Stoliczia_chaseni/1-109
145309452|Terrapotamon_abbotti/1-109
145309454|Potamiscus_aff./1-109
145309456|Geothelphusa_dehaani/1-109
145309458|Candidiopotamon_rathbu/1-109
145309460|Ryukyum_yaeyamense/1-109
145309462|Himalayapotamon_atkins/1-109
146160750|Protolophus_singularis/1-109
146160754|Hesperonemastoma_modes/1-109
146160756|Equitius_doriae/1-109
146160758|Sandokan_malayanus/1-109
149286426|Achaearanea_acoreensis/1-109
149286428|Chrysso_albipes/1-109
149286430|Theridiinae_sp./1-109
149286432|Theridion_acutitarse/1-109
149286434|Keijia_alabamensis/1-109
149286436|Theridion_differens/1-109
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
145309444|Johora_tahanensis/1-109
145309446|Johora_thoi/1-109
145309448|Johora_tiomanensis/1-109
145309450|Stoliczia_chaseni/1-109
145309452|Terrapotamon_abbotti/1-109
145309454|Potamiscus_aff./1-109
145309456|Geothelphusa_dehaani/1-109
145309458|Candidiopotamon_rathbu/1-109
145309460|Ryukyum_yaeyamense/1-109
145309462|Himalayapotamon_atkins/1-109
146160750|Protolophus_singularis/1-109
146160754|Hesperonemastoma_modes/1-109
146160756|Equitius_doriae/1-109
146160758|Sandokan_malayanus/1-109
149286426|Achaearanea_acoreensis/1-109
149286428|Chrysso_albipes/1-109
149286430|Theridiinae_sp./1-109
149286432|Theridion_acutitarse/1-109
149286434|Keijia_alabamensis/1-109
149286436|Theridion_differens/1-109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
149286438|Theridion_flavonotatum/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
149286440|Theridion_glaucescens/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
149286442|Wamba_crispulus/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
149286444|Takayus_lyricus/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
149286446|Theridion_melanurum/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
149286448|Theridion_melanosticum/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
149286452|Theridion_pennsylvanic/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
149286456|Keijia_punctosparsa/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
149286458|Theridion_theridioides/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
149286460|Theridion_kauaiense/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673849|Araneus_marmoreus/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673851|Azilia_guatemalensis/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673853|Chrysometa_alboguttata/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673855|Clitaetra_sp./1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673857|Cyclosa_conica/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673859|Dolichognatha_sp./1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673861|Epeirotypus_brevipes/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673863|Gasteracantha_cancrifo/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673865|Herennia_sp./1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673867|Larinioides_cornutus/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                                       RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

149286438|Theridion_flavonotatum/1-109   ..................................   109
149286440|Theridion_glaucescens/1-109   ..................................   109
149286442|Wamba_crispulus/1-109   ..................................   109
149286444|Takayus_lyricus/1-109   ..................................   109
149286446|Theridion_melanurum/1-109   ..................................   109
149286448|Theridion_melanosticum/1-109   ..................................   109
149286452|Theridion_pennsylvanic/1-109   ..................................   109
149286456|Keijia_punctosparsa/1-109   ..................................   109
149286458|Theridion_theridioides/1-109   ..................................   109
149286460|Theridion_kauaiense/1-109   ..................................   109
157673849|Araneus_marmoreus/1-109   ..................................   109
157673851|Azilia_guatemalensis/1-109   ..................................   109
157673853|Chrysometa_alboguttata/1-109   ..................................   109
157673855|Clitaetra_sp./1-109   ..................................   109
157673857|Cyclosa_conica/1-109   ..................................   109
157673859|Dolichognatha_sp./1-109   ..................................   109
157673861|Epeirotypus_brevipes/1-109   ..................................   109
157673863|Gasteracantha_cancrifo/1-109   ..................................   109
157673865|Herennia_sp./1-109   ..................................   109
157673867|Larinioides_cornutus/1-109   ..................................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                 3
                                                      2                                                                                                                                                 2
                                                      1                                                                                                                                                 1
157673873|Mecynogea_lemniscata/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673875|Meta_menardi/1-109                          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673877|Metabus_ebanoverde/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673879|Metepeira_labyrinthea/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673881|Metellina_merianae/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673885|Mollemeta_edwardsi/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673887|Nanometa_sp./1-109                         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673889|Neoscona_arabesca/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673891|Nephila_clavipes/1-109                     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673895|Oncodamus_sp./1-109                        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673897|Opadometa_sp./1-109                        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673899|Orsinome_sp./1-109                         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673903|Leucauge_argyra/1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157673907|Zygiella_x-notata/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157783365|Clematoscenea_sp./1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157783367|Longivalvus_nubilus/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157783377|Atrichadenotecnum_quad/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157783419|Symbiopsocus_hastatus/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
157783423|Trichadenotecnum_circu/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
158633883|Chelonibia_patula/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4 4
                                                      3 3
                                                      2 2
                                                      1 1
157673873|Mecynogea_lemniscata/1-109                  ..............................    109
157673875|Meta_menardi/1-109                          ..............................    109
157673877|Metabus_ebanoverde/1-109                   ..............................    109
157673879|Metepeira_labyrinthea/1-109                ..............................    109
157673881|Metellina_merianae/1-109                   ..............................    109
157673885|Mollemeta_edwardsi/1-109                   ..............................    109
157673887|Nanometa_sp./1-109                         ..............................    109
157673889|Neoscona_arabesca/1-109                    ..............................    109
157673891|Nephila_clavipes/1-109                     ..............................    109
157673895|Oncodamus_sp./1-109                        ..............................    109
157673897|Opadometa_sp./1-109                        ..............................    109
157673899|Orsinome_sp./1-109                         ..............................    109
157673903|Leucauge_argyra/1-109                      ..............................    109
157673907|Zygiella_x-notata/1-109                    ..............................    109
157783365|Clematoscenea_sp./1-109                    ..............................    109
157783367|Longivalvus_nubilus/1-109                  ..............................    109
157783377|Atrichadenotecnum_quad/1-109               ..............................    109
157783419|Symbiopsocus_hastatus/1-109                ..............................    109
157783423|Trichadenotecnum_circu/1-109               ..............................    109
158633883|Chelonibia_patula/1-109                    ..............................    109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158633885|Verruca_laevigata/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633887|Metaverruca_recta/1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633889|Rostratoverruca_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633891|Rostratoverruca_kruger/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633893|Lithotrya_valentiana/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633895|Lithotrya_sp./1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633897|Calantica_spinosa/1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633899|Calantica_sp./1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633901|Smilium_peronii/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633903|Scalpellum_scalpellum/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633905|Trianguloscalpellum_re/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633907|Neolepas_rapanuii/1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633909|Neolepas_zevinae/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633911|Leucolepas_longa/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633913|Volcanolepas_sp./1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633915|Volcanolepas_osheai/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633917|Ashinkailepas_seepioph/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633919|Neoverruca_sp./1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633921|Neoverruca_sp./1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
158633923|Neoverruca_brachylepad/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                          RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158633885|Verruca_laevigata/1-109          ..................................     109
158633887|Metaverruca_recta/1-109           ..................................     109
158633889|Rostratoverruca_sp./1-109         ..................................     109
158633891|Rostratoverruca_kruger/1-109      ..................................     109
158633893|Lithotrya_valentiana/1-109        ..................................     109
158633895|Lithotrya_sp./1-109               ..................................     109
158633897|Calantica_spinosa/1-109           ..................................     109
158633899|Calantica_sp./1-109               ..................................     109
158633901|Smilium_peronii/1-109             ..................................     109
158633903|Scalpellum_scalpellum/1-109       ..................................     109
158633905|Trianguloscalpellum_re/1-109      ..................................     109
158633907|Neolepas_rapanuii/1-109           ..................................     109
158633909|Neolepas_zevinae/1-109            ..................................     109
158633911|Leucolepas_longa/1-109            ..................................     109
158633913|Volcanolepas_sp./1-109            ..................................     109
158633915|Volcanolepas_osheai/1-109          ..................................     109
158633917|Ashinkailepas_seepioph/1-109      ..................................     109
158633919|Neoverruca_sp./1-109               ..................................     109
158633921|Neoverruca_sp./1-109               ..................................     109
158633923|Neoverruca_brachylepad/1-109       ..................................     109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                  4 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                 3
                                                      2                                                                                                                                                 2
                                                      1                                                                                                                                                 1
158633925|Paralepas_dannevigi/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633927|Heteralepadomorpha_sp./1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633929|Conchoderma_auritum/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633931|Conchoderma_virgatum/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633933|Lepas_pectinata/1-109                       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633935|Lepas_anserifera/1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633939|Lepas_testudinata/1-109                     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633941|Octolasmis_cor/1-109                        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633943|Octolasmis_sp./1-109                        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633945|Octolasmis_warwickii/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633949|Megalasma_striatum/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633951|Oxynaspis_celata/1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633953|Ibla_cumingi/1-109                          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633955|Heterosaccus_dollfusi/1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633957|Heterosaccus_lunatus/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633959|Peltogaster_paguri/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
158633961|Peltogasterella_sulcat/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
159460981|Stygiocaris_lancifera/1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
159460985|Stygiocaris_stylifera/1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
159460987|Stygiocaris_sp./1-109                       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4                                 4
                                                      3                                 3
                                                      2                                 2
                                                      1                                 1
158633925|Paralepas_dannevigi/1-109                   ..................................    109
158633927|Heteralepadomorpha_sp./1-109               ..................................    109
158633929|Conchoderma_auritum/1-109                  ..................................    109
158633931|Conchoderma_virgatum/1-109                 ..................................    109
158633933|Lepas_pectinata/1-109                      ..................................    109
158633935|Lepas_anserifera/1-109                     ..................................    109
158633939|Lepas_testudinata/1-109                    ..................................    109
158633941|Octolasmis_cor/1-109                       ..................................    109
158633943|Octolasmis_sp./1-109                       ..................................    109
158633945|Octolasmis_warwickii/1-109                 ..................................    109
158633949|Megalasma_striatum/1-109                   ..................................    109
158633951|Oxynaspis_celata/1-109                     ..................................    109
158633953|Ibla_cumingi/1-109                         ..................................    109
158633955|Heterosaccus_dollfusi/1-109                ..................................    109
158633957|Heterosaccus_lunatus/1-109                 ..................................    109
158633959|Peltogaster_paguri/1-109                   ..................................    109
158633961|Peltogasterella_sulcat/1-109               ..................................    109
159460981|Stygiocaris_lancifera/1-109                ..................................    109
159460985|Stygiocaris_stylifera/1-109                ..................................    109
159460987|Stygiocaris_sp./1-109                      ..................................    109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
159460989|Halocaridina_rubra/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
159460991|Caridina_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
159460993|Parisia_gracilis/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
159460995|Pycneus_morsitans/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
159460997|Antecaridina_lauensis/1-109                                                                                                                                
159460999|Antecaridina_sp./1-109                                                                                                                                
160279787|Bathytoma_carnicolor/1-109                                                                                                                                
160279789|Benthomangelia_cf./1-109                                                                                                                                
160279791|Rimosodaphnella_sp./1-109                                                                                                                                
160279797|Funa_sp./1-109                                                                                                                                
160279799|Horaiclavus_splendidus/1-109                                                                                                                                
160279801|Gymnobela_sp./1-109                                                                                                                                
160279803|Gymnobela_sp./1-109                                                                                                                                
160279805|Bathytoma_neocaledonic/1-109                                                                                                                                
160279807|Teretiopsis_cf./1-109                                                                                                                                
160279809|Leucosyrinx_sp./1-109                                                                                                                                
160279811|Splendrillia_sp./1-109                                                                                                                                
160279813|Pleurotomella_sp./1-109                                                                                                                                
160279815|Gemmuloborsonia_colora/1-109                                                                                                                                
160279817|Turridrupa_cf./1-109                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
159460989|Halocaridina_rubra/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
159460991|Caridina_sp./1-109                                                                                                                                
159460993|Parisia_gracilis/1-109                                                                                                                                
159460995|Pycneus_morsitans/1-109                                                                                                                                
159460997|Antecaridina_lauensis/1-109                                                                                                                                
159460999|Antecaridina_sp./1-109                                                                                                                                
160279787|Bathytoma_carnicolor/1-109                                                                                                                                
160279789|Benthomangelia_cf./1-109                                                                                                                                
160279791|Rimosodaphnella_sp./1-109                                                                                                                                
160279797|Funa_sp./1-109                                                                                                                                
160279799|Horaiclavus_splendidus/1-109                                                                                                                                
160279801|Gymnobela_sp./1-109                                                                                                                                
160279803|Gymnobela_sp./1-109                                                                                                                                
160279805|Bathytoma_neocaledonic/1-109                                                                                                                                
160279807|Teretiopsis_cf./1-109                                                                                                                                
160279809|Leucosyrinx_sp./1-109                                                                                                                                
160279811|Splendrillia_sp./1-109                                                                                                                                
160279813|Pleurotomella_sp./1-109                                                                                                                                
160279815|Gemmuloborsonia_colora/1-109                                                                                                                                
160279817|Turridrupa_cf./1-109                                                                                                                                
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279819|Inquisitor_sp./1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279821|Gemmula_sp./1-109              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279823|Heteroturris_sp./1-109         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279825|Inquisitor_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279827|Gemmula_rarimaculata/1-109     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279829|Borsonia_sp./1-109             .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279831|Benthofascis_sp./1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279833|Cancellopollia_sp./1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279835|Nassaria_sp./1-109             .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279837|Lienardia_sp./1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279839|Inquisitor_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279841|Eucithara_sp./1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279843|Lienardia_sp./1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279845|Mitromorpha_metula/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279847|Eucithara_sp./1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279849|Eucithara_cf./1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279853|Clavus_sp./1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279855|Turris_babylonia/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279859|Nannodiella_ravella/1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279863|Turridrupa_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                      RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

160279819|Inquisitor_sp./1-109          ..............................     109
160279821|Gemmula_sp./1-109              ..............................     109
160279823|Heteroturris_sp./1-109         ..............................     109
160279825|Inquisitor_sp./1-109           ..............................     109
160279827|Gemmula_rarimaculata/1-109     ..............................     109
160279829|Borsonia_sp./1-109             ..............................     109
160279831|Benthofascis_sp./1-109          ..............................     109
160279833|Cancellopollia_sp./1-109       ..............................     109
160279835|Nassaria_sp./1-109             ..............................     109
160279837|Lienardia_sp./1-109            ..............................     109
160279839|Inquisitor_sp./1-109           ..............................     109
160279841|Eucithara_sp./1-109            ..............................     109
160279843|Lienardia_sp./1-109            ..............................     109
160279845|Mitromorpha_metula/1-109       ..............................     109
160279847|Eucithara_sp./1-109            ..............................     109
160279849|Eucithara_cf./1-109            ..............................     109
160279853|Clavus_sp./1-109               ..............................     109
160279855|Turris_babylonia/1-109         ..............................     109
160279859|Nannodiella_ravella/1-109      ..............................     109
160279863|Turridrupa_sp./1-109           ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279865|Lophiotoma_acuta/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279867|Hemilienardia_calcicin/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279869|Gemmula_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279871|Macteola_sp./1-109                                                                                                                                                                                                                                                                                                                                
160279873|Guraleus_sp./1-109                                                                                                                                                                                                                                                                                                                                
160279875|Bathytoma_tippetti/1-109                                                                                                                                                                                                                                                                                                                
160279877|Mangelia_sp./1-109                                                                                                                                                                                                                                                                                                                
160279879|Borsonia_sp./1-109                                                                                                                                                                                                                                                                                                                
160279881|Carinapex_minutissima/1-109                                                                                                                                                                                                                                                                                                
160279883|Etrema_cf./1-109                                                                                                                                                                                                                                                                                                
160279887|Kermia_sp./1-109                                                                                                                                                                                                                                                                                                
160279889|Mangeliidae_sp./1-109                                                                                                                                                                                                                                                                                                
160279893|Mangeliidae_sp./1-109                                                                                                                                                                                                                                                                                                
160279895|Tomopleura_reevii/1-109                                                                                                                                                                                                                                                                                                
160279897|Lienardia_sp./1-109                                                                                                                                                                                                                                                                                                
160279899|Mitromorpha_sp./1-109                                                                                                                                                                                                                                                                                                
160279901|Kermia_aureotincta/1-109                                                                                                                                                                                                                                                                                                
160279903|Inquisitor_sp./1-109                                                                                                                                                                                                                                                                                                
160279905|Kermia_sp./1-109                                                                                                                                                                                                                                                                                                
160279907|Daphnella_sp./1-109                                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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160279865|Lophiotoma_acuta/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279867|Hemilienardia_calcicin/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279869|Gemmula_sp./1-109                                                                                                                                                                                                                                                                                                                                
160279871|Macteola_sp./1-109                                                                                                                                                                                                                                                                                                                                
160279873|Guraleus_sp./1-109                                                                                                                                                                                                                                                                                                                                
160279875|Bathytoma_tippetti/1-109                                                                                                                                                                                                                                                                                                                
160279877|Mangelia_sp./1-109                                                                                                                                                                                                                                                                                                                
160279879|Borsonia_sp./1-109                                                                                                                                                                                                                                                                                                                
160279881|Carinapex_minutissima/1-109                                                                                                                                                                                                                                                                                                
160279883|Etrema_cf./1-109                                                                                                                                                                                                                                                                                                
160279887|Kermia_sp./1-109                                                                                                                                                                                                                                                                                                
160279889|Mangeliidae_sp./1-109                                                                                                                                                                                                                                                                                                
160279893|Mangeliidae_sp./1-109                                                                                                                                                                                                                                                                                                
160279895|Tomopleura_reevii/1-109                                                                                                                                                                                                                                                                                                
160279897|Lienardia_sp./1-109                                                                                                                                                                                                                                                                                                
160279899|Mitromorpha_sp./1-109                                                                                                                                                                                                                                                                                                
160279901|Kermia_aureotincta/1-109                                                                                                                                                                                                                                                                                                
160279903|Inquisitor_sp./1-109                                                                                                                                                                                                                                                                                                
160279905|Kermia_sp./1-109                                                                                                                                                                                                                                                                                                
160279907|Daphnella_sp./1-109                                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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160279909|Raphitoma_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279911|Veprecula_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279913|Heterocithara_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279915|Crassispira_quadrilira/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279917|Ceritoturris_sp./1-109                                                                                                                                                                                                                                                                                                                                
160279919|Splendrillia_sp./1-109                                                                                                                                                                                                                                                
160279921|Microdrillia_cf./1-109                                                                                                                                                                                
160279923|Ceritoturris_pupiformi/1-109                                                                                                                                
160279925|Conopleura_striata/1-109                                                                                
160279927|Raphitoma_rubroapicata/1-109                                                
160279929|cf._Tritonoturris/1-109                                
160279931|cf._Glyphostomoides/1-109                                
160279933|Mitromorpha_sp./1-109                                
160279935|Anguloclavus_sp./1-109                                
160279937|Borsoniidae_sp./1-109                                
160279939|Conus_orbignyi/1-109                                
160279941|Otitoma_sp./1-109                                
160279943|Ptychobela_sp./1-109                                
160279945|Gemmula_sp./1-109                                
160279947|Cinguloterebra_cf./1-109                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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160279909|Raphitoma_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279911|Veprecula_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279913|Heterocithara_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279915|Crassispira_quadrilira/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279917|Ceritoturris_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279919|Splendrillia_sp./1-109                                                                                                                                                                                                                                                                                                                                
160279921|Microdrillia_cf./1-109                                                                                                                                                                                
160279923|Ceritoturris_pupiformi/1-109                                                                                                                                
160279925|Conopleura_striata/1-109                                                                                
160279927|Raphitoma_rubroapicata/1-109                                                
160279929|cf._Tritonoturris/1-109                                
160279931|cf._Glyphostomoides/1-109                                
160279933|Mitromorpha_sp./1-109                                
160279935|Anguloclavus_sp./1-109                                
160279937|Borsoniidae_sp./1-109                                
160279939|Conus_orbignyi/1-109                                
160279941|Otitoma_sp./1-109                                
160279943|Ptychobela_sp./1-109                                
160279945|Gemmula_sp./1-109                                
160279947|Cinguloterebra_cf./1-109                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                 3
                                                      2                                                                                                                                                 2
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160279949|Tomopleura_sp./1-109                        ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279951|Conus_praecellens/1-109                    ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279953|Conus_sulcatus/1-109                       ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279955|Conus_pagodus/1-109                         ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279957|Toxicochlespira_sp./1-109                  ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279959|Comitas_sp./1-109                           ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279961|Terebra_sp./1-109                           ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279963|Comitas_sp./1-109                           ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279965|Conus_wakayamaensis/1-109                  ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279967|Cinguloterebra_cf./1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279969|Thatcheria_mirabilis/1-109                 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279971|Borsonia_sp./1-109                          ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279973|Toxicochlespira_pagoda/1-109                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279975|Borsonia_sp./1-109                          ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279977|Daphnella_sp./1-109                         ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279979|Comitas_sp./1-109                           ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279981|Bathytoma_paratractoid/1-109                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279983|Benthomangelia_sp./1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279985|cf._Typhlomangelia/1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
160279987|Comitas_sp./1-109                           ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4                                 4
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                                                      2                                 2
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160279949|Tomopleura_sp./1-109                        ..............................    109
160279951|Conus_praecellens/1-109                     ..............................    109
160279953|Conus_sulcatus/1-109                        ..............................    109
160279955|Conus_pagodus/1-109                         ..............................    109
160279957|Toxicochlespira_sp./1-109                   ..............................    109
160279959|Comitas_sp./1-109                           ..............................    109
160279961|Terebra_sp./1-109                           ..............................    109
160279963|Comitas_sp./1-109                           ..............................    109
160279965|Conus_wakayamaensis/1-109                   ..............................    109
160279967|Cinguloterebra_cf./1-109                    ..............................    109
160279969|Thatcheria_mirabilis/1-109                  ..............................    109
160279971|Borsonia_sp./1-109                          ..............................    109
160279973|Toxicochlespira_pagoda/1-109                ..............................    109
160279975|Borsonia_sp./1-109                          ..............................    109
160279977|Daphnella_sp./1-109                         ..............................    109
160279979|Comitas_sp./1-109                           ..............................    109
160279981|Bathytoma_paratractoid/1-109                ..............................    109
160279983|Benthomangelia_sp./1-109                    ..............................    109
160279985|cf._Typhlomangelia/1-109                    ..............................    109
160279987|Comitas_sp./1-109                           ..............................    109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279989|Borsonia_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279991|Inquisitor_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279993|Conus_generalis/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279995|Conus_gauguini/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279997|Terebra_textilis/1-109                                                                                                                                                                                                                                                                                
160279999|Conus_consors/1-109                                                                                                                                
161779386|Australembia_rileyi/1-109                                                                                                
161779388|Notoligotoma_hardyi/1-109                                                                                
161779390|Oligotoma_saundersii/1-109                                                                
161779392|Metoligotoma_bidens/1-109                                                
161779394|Metoligotoma_extorris/1-109                                
161779396|Metoligotoma_reducta/1-109                                
161779398|Metoligotoma_begae/1-109                                
161779400|Metoligotoma_sp./1-109                                
162424364|Corynomalus_laevigatus/1-109                                
162424366|Corticarina_sp./1-109                                
162424368|Philothermus_glabricul/1-109                                
162424370|Aphanocephalus_sp./1-109                                
162424372|Bothrideres_geminatus/1-109                                
162424374|Revelieria_californica/1-109                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279989|Borsonia_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279991|Inquisitor_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
160279993|Conus_generalis/1-109                                                                                                                                
160279995|Conus_gauguini/1-109                                                                                
160279997|Terebra_textilis/1-109                                                
160279999|Conus_consors/1-109                                                
161779386|Australembia_rileyi/1-109                                                
161779388|Notoligotoma_hardyi/1-109                                                
161779390|Oligotoma_saundersii/1-109                                                
161779392|Metoligotoma_bidens/1-109                                                
161779394|Metoligotoma_extorris/1-109                                                
161779396|Metoligotoma_reducta/1-109                                                
161779398|Metoligotoma_begae/1-109                                                
161779400|Metoligotoma_sp./1-109                                                
162424364|Corynomalus_laevigatus/1-109                                                
162424366|Corticarina_sp./1-109                                                
162424368|Philothermus_glabricul/1-109                                                
162424370|Aphanocephalus_sp./1-109                                                
162424372|Bothrideres_geminatus/1-109                                                
162424374|Revelieria_californica/1-109                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
162424378|Melanophthalma_sp./1-109      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
162424380|Melanophthalma_sp./1-109      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
162424382|Melanophthalma_sp./1-109      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
162424388|Hippodamia_convergens/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
162424390|Pselaphacus_nigropunct/1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
162424392|Metophthalmus_haigi/1-109     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
162424398|Stephostethus_lardariu/1-109 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
162424400|Latridius_crenatus/1-109     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
162424402|Cartodere_constrictus/1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
162424404|Aridius_nodifer/1-109        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
162424406|Corticarina_sp./1-109        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
162424408|Migneauxia_orientalis/1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
162424410|Cortinicara_sp./1-109        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
162424412|Corticarina_sp./1-109        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
162424414|Fuchsina_occulta/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
162424416|Corticaria_sp./1-109         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638117|Dysdera_lancerotensis/1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638123|Dysdera_alegranzaensis/1-109 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638157|Dysdera_sanborondon/1-109    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638161|Dysdera_spinidorsa/1-109     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                       RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

162424378|Melanophthalma_sp./1-109      ..............................     109
162424380|Melanophthalma_sp./1-109      ..............................     109
162424382|Melanophthalma_sp./1-109      ..............................     109
162424388|Hippodamia_convergens/1-109   ..............................     109
162424390|Pselaphacus_nigropunct/1-109  ..............................     109
162424392|Metophthalmus_haigi/1-109     ..............................     109
162424398|Stephostethus_lardariu/1-109 ..............................     109
162424400|Latridius_crenatus/1-109     ..............................     109
162424402|Cartodere_constrictus/1-109  ..............................     109
162424404|Aridius_nodifer/1-109        ..............................     109
162424406|Corticarina_sp./1-109        ..............................     109
162424408|Migneauxia_orientalis/1-109  ..............................     109
162424410|Cortinicara_sp./1-109        ..............................     109
162424412|Corticarina_sp./1-109        ..............................     109
162424414|Fuchsina_occulta/1-109       ..............................     109
162424416|Corticaria_sp./1-109         ..............................     109
163638117|Dysdera_lancerotensis/1-109  ..............................     109
163638123|Dysdera_alegranzaensis/1-109 ..............................     109
163638157|Dysdera_sanborondon/1-109    ..............................     109
163638161|Dysdera_spinidorsa/1-109     ..............................     109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                  RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

163638167|Dysdera_longa/1-109                         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638185|Dysdera_chioensis/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638187|Dysdera_erythrina/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638189|Dysdera_crocata/1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638191|Dysdera_guayota/1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638194|Dysdera_iguanensis/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638198|Dysdera_cf./1-109                          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638200|Dysdera_insulana/1-109                     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638202|Dysdera_levipes/1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638204|Dysdera_gomerensis/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638210|Dysdera_mauritanica/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638212|Dysdera_montanetensis/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638214|Dysdera_mucronata/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638216|Dysdera_ninnii/1-109                       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638218|Dysdera_paucispinosa/1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638220|Dysdera_verneaui/1-109                     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638222|Dysdera_atlantica/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638224|Dysdera_silvatica/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638226|Dysdera_scabricula/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
163638228|Dysdera_cf./1-109                          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

163638167|Dysdera_longa/1-109                         ..............................     109
163638185|Dysdera_chioensis/1-109                    ..............................     109
163638187|Dysdera_erythrina/1-109                    ..............................     109
163638189|Dysdera_crocata/1-109                      ..............................     109
163638191|Dysdera_guayota/1-109                      ..............................     109
163638194|Dysdera_iguanensis/1-109                   ..............................     109
163638198|Dysdera_cf./1-109                          ..............................     109
163638200|Dysdera_insulana/1-109                     ..............................     109
163638202|Dysdera_levipes/1-109                      ..............................     109
163638204|Dysdera_gomerensis/1-109                   ..............................     109
163638210|Dysdera_mauritanica/1-109                  ..............................     109
163638212|Dysdera_montanetensis/1-109                ..............................     109
163638214|Dysdera_mucronata/1-109                    ..............................     109
163638216|Dysdera_ninnii/1-109                       ..............................     109
163638218|Dysdera_paucispinosa/1-109                 ..............................     109
163638220|Dysdera_verneaui/1-109                     ..............................     109
163638222|Dysdera_atlantica/1-109                    ..............................     109
163638224|Dysdera_silvatica/1-109                    ..............................     109
163638226|Dysdera_scabricula/1-109                   ..............................     109
163638228|Dysdera_cf./1-109                          ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                 3
                                                      2                                                                                                                                                 2
                                                      1                                                                                                                                                 1
163638234|Dysdera_sp./1-109                           ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
163638238|Dysdera_sp./1-109                           ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
163638240|Dysdera_rugichelis/1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
163638242|Dysdera_tilosensis/1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
163638244|Dysdera_unguimmanis/1-109                  ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
163638246|Dysdera_liostethus/1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
163638248|Dysdera_yguanirae/1-109                    ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
163638250|Harpactea_hombergi/1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
163638252|Harpactocrates_radulif/1-109               ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
163638254|Rhode_scutiventris/1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
163638256|Dysderocrates_silvestr/1-109                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
166092242|Pagiopalus_nigriventri/1-109               ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
166092244|Proernus_stigmaticus/1-109                 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
166092278|Diaea_subdola/1-109                         ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
166092280|Camaricus_sp./1-109                        ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
166092282|Boboropactus_cinerasce/1-109               ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
166092286|Boliscus_sp./1-109                         ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
166092288|Thomisus_sp./1-109                          ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
166092290|Runcinia_albostriata/1-109                 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
166092294|Xysticus_sp./1-109                          ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4                                 4
                                                      3                                 3
                                                      2                                 2
                                                      1                                 1
163638234|Dysdera_sp./1-109                           ..................................  109
163638238|Dysdera_sp./1-109                           ..................................  109
163638240|Dysdera_rugichelis/1-109                   ..................................  109
163638242|Dysdera_tilosensis/1-109                   ..................................  109
163638244|Dysdera_unguimmanis/1-109                  ..................................  109
163638246|Dysdera_liostethus/1-109                   ..................................  109
163638248|Dysdera_yguanirae/1-109                    ..................................  109
163638250|Harpactea_hombergi/1-109                   ..................................  109
163638252|Harpactocrates_radulif/1-109               ..................................  109
163638254|Rhode_scutiventris/1-109                   ..................................  109
163638256|Dysderocrates_silvestr/1-109                ..................................  109
166092242|Pagiopalus_nigriventri/1-109               ..................................  109
166092244|Proernus_stigmaticus/1-109                 ..................................  109
166092278|Diaea_subdola/1-109                         ..................................  109
166092280|Camaricus_sp./1-109                        ..................................  109
166092282|Boboropactus_cinerasce/1-109               ..................................  109
166092286|Boliscus_sp./1-109                         ..................................  109
166092288|Thomisus_sp./1-109                         ..................................  109
166092290|Runcinia_albostriata/1-109                 ..................................  109
166092294|Xysticus_sp./1-109                         ..................................  109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
166092296|Thomisidae_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
166092300|Amyciaea_forticeps/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
166092302|Coriarachne_versicolor/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
166165241|Leptopalaemon_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
166165243|Macrobrachium_australi/1-109                                                                                                                                
166165245|Kakaducaris_glabra/1-109                                                                                
166165247|Macrobrachium_lar/1-109                                                                
187948555|Pecten_maximus/1-109                                                                
194173275|Chileogovea_sp./1-109                                                                
194173283|Pettalus_sp./1-109                                                                
194173313|Rakaia_n./1-109                                                                
196481262|Deleatidium_cornutum/1-109                                                                
196481284|Penaphlebia_chilensis/1-109                                                                
196481298|Leptophlebia_marginata/1-109                                                                
196481318|Habrophlebia_lauta/1-109                                                                
209394891|Lumbricus_terrestris/1-109                                                                
209394897|Lumbricus_rubellus/1-109                                                                
209394901|Lumbricus_festivus/1-109                                                                
209394907|Helodrilus_oculatus/1-109                                                                
209394911|Eisenia_fetida/1-109                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
166092296|Thomisidae_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
166092300|Amyciaea_forticeps/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
166092302|Coriarachne_versicolor/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
166165241|Leptopalaemon_sp./1-109                                                                                                                                
166165243|Macrobrachium_australi/1-109                                                                
166165245|Kakaducaris_glabra/1-109                                                                
166165247|Macrobrachium_lar/1-109                                                                
187948555|Pecten_maximus/1-109                                                                
194173275|Chileogovea_sp./1-109                                                                
194173283|Pettalus_sp./1-109                                                                
194173313|Rakaia_n./1-109                                                                
196481262|Deleatidium_cornutum/1-109                                                                
196481284|Penaphlebia_chilensis/1-109                                                                
196481298|Leptophlebia_marginata/1-109                                                                
196481318|Habrophlebia_lauta/1-109                                                                
209394891|Lumbricus_terrestris/1-109                                                                
209394897|Lumbricus_rubellus/1-109                                                                
209394901|Lumbricus_festivus/1-109                                                                
209394907|Helodrilus_oculatus/1-109                                                                
209394911|Eisenia_fetida/1-109                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
209394919|Aporrectodea_icterica/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209394921|Aporrectodea_longa/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209394925|Aporrectodea_rosea/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209394931|Dendrobaena_attemsi/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209394933|Eisenia_lucens/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209394935|Eisenia_carolinensis/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209394939|Allolobophora_chloroti/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209394941|Octolasion_sp./1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209394943|Dendrobaena_veneta/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209394945|Octolasion_tyrtaeum/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209394951|Octolasion_lacteum/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209486224|Dendrodrilus_rubidus/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209486226|Aporrectodea_tubercula/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209486228|Aporrectodea_caliginos/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970168|Sepiella_inermis/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970170|Lolliguncula_diomedeae/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970180|Brachioteuthis_sp./1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970182|Brachioteuthis_sp./1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970185|Taonius_pavo/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970187|Leachia_lemur/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                     RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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209394919|Aporrectodea_icterica/1-109      ..................................     109
209394921|Aporrectodea_longa/1-109        ..................................     109
209394925|Aporrectodea_rosea/1-109        ..................................     109
209394931|Dendrobaena_attemsi/1-109       ..................................     109
209394933|Eisenia_lucens/1-109             ..................................     109
209394935|Eisenia_carolinensis/1-109       ..................................     109
209394939|Allolobophora_chloroti/1-109    ..................................     109
209394941|Octolasion_sp./1-109            ..................................     109
209394943|Dendrobaena_veneta/1-109        ..................................     109
209394945|Octolasion_tyrtaeum/1-109       ..................................     109
209394951|Octolasion_lacteum/1-109        ..................................     109
209486224|Dendrodrilus_rubidus/1-109      ..................................     109
209486226|Aporrectodea_tubercula/1-109    ..................................     109
209486228|Aporrectodea_caliginos/1-109    ..................................     109
209970168|Sepiella_inermis/1-109          ..................................     109
209970170|Lolliguncula_diomedeae/1-109    ..................................     109
209970180|Brachioteuthis_sp./1-109        ..................................     109
209970182|Brachioteuthis_sp./1-109        ..................................     109
209970185|Taonius_pavo/1-109              ..................................     109
209970187|Leachia_lemur/1-109             ..................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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209970193|Abralia_veranyi/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970195|Pterygioteuthis_microl/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970197|Pterygioteuthis_giardi/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970200|Gonatopsis_sp./1-109                    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970208|Histioteuthis_miranda/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970210|Histioteuthis_bonellii/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970214|Chiroteuthis_veranyi/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970216|Chiroteuthis_mega/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970220|Planctoteuthis_leviman/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970224|Sthenoteuthis_oualanie/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970232|Octopoteuthis_nielseni/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970234|Octopoteuthis_danae/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970236|Octopoteuthis_megapter/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970238|Magnapinna_sp./1-109                    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970246|Notonykia_sp./1-109                     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
209970250|Onychoteuthis_cf./1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219524021|Aegla_alacalufi/1-109                   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219524023|Anchistioides_antiguen/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219524025|Astacoides_betsileoens/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219524027|Barbicambarus_cornutus/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                                 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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209970193|Abralia_veranyi/1-109                  ..................................     109
209970195|Pterygioteuthis_microl/1-109            ..................................     109
209970197|Pterygioteuthis_giardi/1-109            ..................................     109
209970200|Gonatopsis_sp./1-109                    ..................................     109
209970208|Histioteuthis_miranda/1-109             ..................................     109
209970210|Histioteuthis_bonellii/1-109            ..................................     109
209970214|Chiroteuthis_veranyi/1-109              ..................................     109
209970216|Chiroteuthis_mega/1-109                 ..................................     109
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209970234|Octopoteuthis_danae/1-109               ..................................     109
209970236|Octopoteuthis_megapter/1-109            ..................................     109
209970238|Magnapinna_sp./1-109                    ..................................     109
209970246|Notonykia_sp./1-109                     ..................................     109
209970250|Onychoteuthis_cf./1-109                 ..................................     109
219524021|Aegla_alacalufi/1-109                   ..................................     109
219524023|Anchistioides_antiguen/1-109            ..................................     109
219524025|Astacoides_betsileoens/1-109            ..................................     109
219524027|Barbicambarus_cornutus/1-109            ..................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                   1 ┘                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
219524029|Cyclograpsus_cinereus/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524031|Crangon_crangon/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524035|Calappa_gallus/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524037|Cycloes_granulosa/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524039|Cosmonotus_grayi/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524043|Coutierella_tonkinensi/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524045|Discias_sp./1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524047|Euastacus_eungella/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524049|Eumunida_funambulus/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524051|Eualus_gaimardii/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524053|Euastacus_robertsi/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524059|Ethusa_sp./1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524065|Jasus_edwardsii/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524067|Kiwa_hirsuta/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524069|Munidopsis_rostrata/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524071|Procambarus_clarkii/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524073|Parastacus_defossus/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524075|Palinurus_elephas/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524077|Pomatocheles_jeffreysi/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
219524079|Praebebalia_longidacty/1-109 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
consensus                              RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                   4 ┐                                 ┌ 4
                                       3 ┤                                 ├ 3
                                       2 ┤                                 ├ 2
logo                                   1 ┘                                 └ 1
219524029|Cyclograpsus_cinereus/1-109 ..................................  109
219524031|Crangon_crangon/1-109 ..................................  109
219524035|Calappa_gallus/1-109 ..................................  109
219524037|Cycloes_granulosa/1-109 ..................................  109
219524039|Cosmonotus_grayi/1-109 ..................................  109
219524043|Coutierella_tonkinensi/1-109 ..................................  109
219524045|Discias_sp./1-109 ..................................  109
219524047|Euastacus_eungella/1-109 ..................................  109
219524049|Eumunida_funambulus/1-109 ..................................  109
219524051|Eualus_gaimardii/1-109 ..................................  109
219524053|Euastacus_robertsi/1-109 ..................................  109
219524059|Ethusa_sp./1-109 ..................................  109
219524065|Jasus_edwardsii/1-109 ..................................  109
219524067|Kiwa_hirsuta/1-109 ..................................  109
219524069|Munidopsis_rostrata/1-109 ..................................  109
219524071|Procambarus_clarkii/1-109 ..................................  109
219524073|Parastacus_defossus/1-109 ..................................  109
219524075|Palinurus_elephas/1-109 ..................................  109
219524077|Pomatocheles_jeffreysi/1-109 ..................................  109
219524079|Praebebalia_longidacty/1-109 ..................................  109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
219524083|Polycheles_typhlops/1-109
219524089|Lysiosquillina_maculat/1-109
219882003|Fahrenholzia_reducta/1-109
219882005|Pediculus_humanus/1-109
219882013|Pediculus_humanus/1-109
219882017|Pediculus_schaeffi/1-109
219882019|Pthirus_pubis/1-109
219882021|Pthirus_gorillae/1-109
219882023|Pedicinus_badii/1-109
219930638|Trichodactylus_dentatu/1-109
219930640|Carpilius_sp./1-109
219930642|Podophthalmus_vigil/1-109
219930644|Richerellus_moosai/1-109
219930646|Carupa_tenuipes/1-109
219930648|Carupa_ohashii/1-109
219930650|Lissocarcinus_orbicula/1-109
219930652|Laleonectes_nipponensi/1-109
219930654|Scylla_serrata/1-109
219930656|Achelous_ordwayi/1-109
219930658|Portunus_inaequalis/1-109
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
219930660|Portunus_hastatus/1-109                  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930662|Portunus_pelagicus/1-109                  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930664|Callinectes_sapidus/1-109                  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930666|Arenaeus_cribrarius/1-109                  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930668|Thalamita_crenata/1-109                    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930670|Corystes_cassivelaunus/1-109               ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930672|Telmessus_cheiragonus/1-109                ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930674|Erimacrus_isenbeckii/1-109                 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930676|Atelecyclus_rotundatus/1-109               ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930678|Atelecyclus_undecimden/1-109               ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930680|Cancer_pagurus/1-109                       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930682|Cancer_irroratus/1-109                     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930684|Pirimela_denticulata/1-109                 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930686|Sirpus_zariquieyi/1-109                    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930688|Thia_scutellata/1-109                      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930690|Carcinus_maenas/1-109                      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930692|Portumnus_latipes/1-109                    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930694|Necora_puber/1-109                         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930696|Bathynectes_maravigna/1-109                ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930698|Macropipus_tuberculatu/1-109               ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                            RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo

219930660|Portunus_hastatus/1-109                  ..............................     109
219930662|Portunus_pelagicus/1-109                  ..............................     109
219930664|Callinectes_sapidus/1-109                 ..............................     109
219930666|Arenaeus_cribrarius/1-109                 ..............................     109
219930668|Thalamita_crenata/1-109                   ..............................     109
219930670|Corystes_cassivelaunus/1-109              ..............................     109
219930672|Telmessus_cheiragonus/1-109               ..............................     109
219930674|Erimacrus_isenbeckii/1-109                ..............................     109
219930676|Atelecyclus_rotundatus/1-109              ..............................     109
219930678|Atelecyclus_undecimden/1-109              ..............................     109
219930680|Cancer_pagurus/1-109                      ..............................     109
219930682|Cancer_irroratus/1-109                    ..............................     109
219930684|Pirimela_denticulata/1-109                ..............................     109
219930686|Sirpus_zariquieyi/1-109                   ..............................     109
219930688|Thia_scutellata/1-109                     ..............................     109
219930690|Carcinus_maenas/1-109                     ..............................     109
219930692|Portumnus_latipes/1-109                   ..............................     109
219930694|Necora_puber/1-109                        ..............................     109
219930696|Bathynectes_maravigna/1-109               ..............................     109
219930698|Macropipus_tuberculatu/1-109              ..............................     109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
219930700|Polybius_henslowii/1-109      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930702|Liocarcinus_holsatus/1-109      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930704|Liocarcinus_vernalis/1-109      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930706|Liocarcinus_depurator/1-109    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930708|Liocarcinus_corrugatus/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930710|Liocarcinus_navigator/1-109    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930712|Ovalipes_australiensis/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930714|Ovalipes_trimaculatus/1-109    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930716|Ovalipes_punctatus/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930718|Ovalipes_iridescens/1-109      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930720|Benthochascon_hemingi/1-109    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930722|Chaceon_granulatus/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930724|Geryon_longipes/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
219930728|Epilobocera_sinuatifro/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
220684148|Argiope_trifasciata/1-109      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
220684150|Tetragnatha_versicolor/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
220684156|Eustala_sp./1-109               ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
220684160|Leucauge_venusta/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
220684162|Metepeira_sp./1-109             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
220684164|Micrathena_gracilis/1-109      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                        RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

219930700|Polybius_henslowii/1-109      ..............................     109
219930702|Liocarcinus_holsatus/1-109      ..............................     109
219930704|Liocarcinus_vernalis/1-109      ..............................     109
219930706|Liocarcinus_depurator/1-109     ..............................     109
219930708|Liocarcinus_corrugatus/1-109    ..............................     109
219930710|Liocarcinus_navigator/1-109     ..............................     109
219930712|Ovalipes_australiensis/1-109    ..............................     109
219930714|Ovalipes_trimaculatus/1-109     ..............................     109
219930716|Ovalipes_punctatus/1-109        ..............................     109
219930718|Ovalipes_iridescens/1-109       ..............................     109
219930720|Benthochascon_hemingi/1-109     ..............................     109
219930722|Chaceon_granulatus/1-109        ..............................     109
219930724|Geryon_longipes/1-109           ..............................     109
219930728|Epilobocera_sinuatifro/1-109    ..............................     109
220684148|Argiope_trifasciata/1-109       ..............................     109
220684150|Tetragnatha_versicolor/1-109    ..............................     109
220684156|Eustala_sp./1-109               ..............................     109
220684160|Leucauge_venusta/1-109          ..............................     109
220684162|Metepeira_sp./1-109             ..............................     109
220684164|Micrathena_gracilis/1-109       ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
220684168|Uloborus_diversus/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
220684170|Verrucosa_arenata/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
220684172|Argiope_aurantia/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446348|Cellana_karachiensis/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446350|Cellana_mazatlandica/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446366|Cellana_nigrolineata/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446368|Cellana_pricei/1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446370|Cellana_radians/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446372|Cellana_radiata/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446374|Cellana_radiata/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446384|Cellana_radiata/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446392|Cellana_radiata/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446400|Cellana_stellifera/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446402|Cellana_solida/1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446404|Cellana_strigilis/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446406|Cellana_taitensis/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446408|Cellana_testudinaria/1-109  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446410|Cellana_toreuma/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446412|Cellana_tramoserica/1-109   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
222446416|Cellana_grata/1-109         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                  RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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220684168|Uloborus_diversus/1-109      ..............................     109
220684170|Verrucosa_arenata/1-109      ..............................     109
220684172|Argiope_aurantia/1-109       ..............................     109
222446348|Cellana_karachiensis/1-109   ..............................     109
222446350|Cellana_mazatlandica/1-109   ..............................     109
222446366|Cellana_nigrolineata/1-109   ..............................     109
222446368|Cellana_pricei/1-109         ..............................     109
222446370|Cellana_radians/1-109        ..............................     109
222446372|Cellana_radiata/1-109        ..............................     109
222446374|Cellana_radiata/1-109        ..............................     109
222446384|Cellana_radiata/1-109        ..............................     109
222446392|Cellana_radiata/1-109        ..............................     109
222446400|Cellana_stellifera/1-109     ..............................     109
222446402|Cellana_solida/1-109         ..............................     109
222446404|Cellana_strigilis/1-109      ..............................     109
222446406|Cellana_taitensis/1-109      ..............................     109
222446408|Cellana_testudinaria/1-109   ..............................     109
222446410|Cellana_toreuma/1-109        ..............................     109
222446412|Cellana_tramoserica/1-109    ..............................     109
222446416|Cellana_grata/1-109          ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
222446418|Cellana_flava/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
222446420|Cellana_denticulata/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
222446422|Cellana_eucosmia/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
222446458|Nacella_deaurata/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
222446460|Nacella_magellanica/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
223403429|Acanthepeira_stellata/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
223403431|Agelenopsis_aperta/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
223403433|Araneus_diadematus/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
223403437|Ariadna_fidicina/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
223403441|Austrochilus_sp./1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
223403445|Callobius_sp./1-109                    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
223403447|Cyrtophora_moluccensis/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
223403451|Dolomedes_tenebrosus/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
223403453|Euagrus_chisoseus/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
223403457|Hyptiotes_gertschi/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
223403459|Latrodectus_geometricu/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
223403463|Mastophora_phrynosoma/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
223403469|Metellina_segmentata/1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
223403473|Mimetus_sp./1-109                      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
223403475|Nephilengys_malabarens/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                                         RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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222446418|Cellana_flava/1-109                  ..................................  109
222446420|Cellana_denticulata/1-109              ..................................  109
222446422|Cellana_eucosmia/1-109                  ..................................  109
222446458|Nacella_deaurata/1-109                  ..................................  109
222446460|Nacella_magellanica/1-109               ..................................  109
223403429|Acanthepeira_stellata/1-109             ..................................  109
223403431|Agelenopsis_aperta/1-109                ..................................  109
223403433|Araneus_diadematus/1-109                ..................................  109
223403437|Ariadna_fidicina/1-109                  ..................................  109
223403441|Austrochilus_sp./1-109                  ..................................  109
223403445|Callobius_sp./1-109                     ..................................  109
223403447|Cyrtophora_moluccensis/1-109            ..................................  109
223403451|Dolomedes_tenebrosus/1-109              ..................................  109
223403453|Euagrus_chisoseus/1-109                 ..................................  109
223403457|Hyptiotes_gertschi/1-109                ..................................  109
223403459|Latrodectus_geometricu/1-109            ..................................  109
223403463|Mastophora_phrynosoma/1-109             ..................................  109
223403469|Metellina_segmentata/1-109              ..................................  109
223403473|Mimetus_sp./1-109                       ..................................  109
223403475|Nephilengys_malabarens/1-109            ..................................  109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
223403483|Oecobius_sp./1-109                  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
223403485|Peucetia_viridans/1-109                ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
223403487|Paraphidippus_aurantiu/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
223403489|Phonognatha_graeffei/1-109             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
223403491|Phoroncidia_americana/1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
223403493|Pimoa_sp./1-109                        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
223403495|Plectreurys_tristis/1-109              ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
223403499|Waitkera_waitakerensis/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
223403501|Zorocrates_fuscus/1-109                ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
223452821|Acerentomon_franzi/1-109               ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
224814410|Achrioptera_punctipes/1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
224814414|Asprenas_impennis/1-109                ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
224814416|Carlius_fecundus/1-109                 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
224814428|Canachus_sp./1-109                     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
224814430|Anchiale_sp./1-109                     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
224814432|Chitoniscus_brachysoma/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
224814436|Chondrostethus_woodfor/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
224814446|Dimorphodes_mancus/1-109               ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
224814454|Eurycantha_calcarata/1-109             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
224814456|Eurycnema_osiris/1-109                 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                                   RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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223403483|Oecobius_sp./1-109                  ..............................     109
223403485|Peucetia_viridans/1-109                ..............................     109
223403487|Paraphidippus_aurantiu/1-109           ..............................     109
223403489|Phonognatha_graeffei/1-109             ..............................     109
223403491|Phoroncidia_americana/1-109            ..............................     109
223403493|Pimoa_sp./1-109                        ..............................     109
223403495|Plectreurys_tristis/1-109              ..............................     109
223403499|Waitkera_waitakerensis/1-109           ..............................     109
223403501|Zorocrates_fuscus/1-109                ..............................     109
223452821|Acerentomon_franzi/1-109               ..............................     109
224814410|Achrioptera_punctipes/1-109            ..............................     109
224814414|Asprenas_impennis/1-109                ..............................     109
224814416|Carlius_fecundus/1-109                 ..............................     109
224814428|Canachus_sp./1-109                     ..............................     109
224814430|Anchiale_sp./1-109                     ..............................     109
224814432|Chitoniscus_brachysoma/1-109           ..............................     109
224814436|Chondrostethus_woodfor/1-109           ..............................     109
224814446|Dimorphodes_mancus/1-109               ..............................     109
224814454|Eurycantha_calcarata/1-109             ..............................     109
224814456|Eurycnema_osiris/1-109                 ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                 3
                                                      2                                                                                                                                                 2
                                                      1                                                                                                                                                 1
224814474|Malandania_pulchra/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
224814482|Labidiophasma_rouxi/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
224814486|Megacrania_phelaus/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
224814488|Microcanachus_matileor/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
224814498|Neopromachus_doreyanus/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
224814500|Orxines_semperi/1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
224814502|Oxyartes_lamellatus/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
224814508|Phasmotaenia_sp./1-109                     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
224814520|Phasma_gigas/1-109                         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
224814524|Pseudosermyle_phalangi/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
224814532|Ramulus_thaii/1-109                        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
224814542|Bactrododema_sp./1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
224814546|Trapezaspis_sp./1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
224814550|Xeroderus_sp./1-109                        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
224814552|Xylica_oedematosa/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
237513161|Hansenocaris_itoi/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
237513163|Facetotecta_sp./1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
237513165|Facetotecta_sp./1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
237513167|Facetotecta_sp./1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
237513169|Facetotecta_sp./1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4                                 4
                                                      3                                 3
                                                      2                                 2
                                                      1                                 1
224814474|Malandania_pulchra/1-109                    ..................................  109
224814482|Labidiophasma_rouxi/1-109                  ..................................  109
224814486|Megacrania_phelaus/1-109                   ..................................  109
224814488|Microcanachus_matileor/1-109               ..................................  109
224814498|Neopromachus_doreyanus/1-109               ..................................  109
224814500|Orxines_semperi/1-109                      ..................................  109
224814502|Oxyartes_lamellatus/1-109                  ..................................  109
224814508|Phasmotaenia_sp./1-109                     ..................................  109
224814520|Phasma_gigas/1-109                         ..................................  109
224814524|Pseudosermyle_phalangi/1-109               ..................................  109
224814532|Ramulus_thaii/1-109                        ..................................  109
224814542|Bactrododema_sp./1-109                     ..................................  109
224814546|Trapezaspis_sp./1-109                      ..................................  109
224814550|Xeroderus_sp./1-109                        ..................................  109
224814552|Xylica_oedematosa/1-109                    ..................................  109
237513161|Hansenocaris_itoi/1-109                    ..................................  109
237513163|Facetotecta_sp./1-109                      ..................................  109
237513165|Facetotecta_sp./1-109                      ..................................  109
237513167|Facetotecta_sp./1-109                      ..................................  109
237513169|Facetotecta_sp./1-109                      ..................................  109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                  4 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                 3
                                                      2                                                                                                                                                 2
                                                      1                                                                                                                                                 1
237513173|Facetotecta_sp./1-109                       ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
237513177|Zibrowia_auriculata/1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
237513183|Auritoglyptes_bicornis/1-109               ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
237513185|Trypetesa_lampas/1-109                     ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
237513187|Thompsonia_magellani/1-109                 ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
237824186|Procambarus_fallax/1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
237824192|Procambarus_alleni/1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
237824194|Procambarus_acutus/1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
237824196|Procambarus_liberorum/1-109                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
237824198|Procambarus_tenuis/1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
239579903|Caenoncopus_cuspidatus/1-109               ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
239579905|Palaeoncopus_sp./1-109                     ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
239579909|Gnomulus_latoperculum/1-109                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
239579923|Caenoncopus_sp./1-109                     ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
239579925|Sandokan_tiomanensis/1-109                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
239579935|Sandokanidae_sp./1-109                    ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
240015304|Pseudosaldula_sp./1-109                   ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
240155937|Vandellia_sanguinea/1-109                  ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
253584690|Peltonychia_clavigera/1-109                ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
253584694|Dongmoa_sp./1-109                          ....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4
                                                      3
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237513173|Facetotecta_sp./1-109                       ..............................  109
237513177|Zibrowia_auriculata/1-109                   ..............................  109
237513183|Auritoglyptes_bicornis/1-109                ..............................  109
237513185|Trypetesa_lampas/1-109                      ..............................  109
237513187|Thompsonia_magellani/1-109                  ..............................  109
237824186|Procambarus_fallax/1-109                    ..............................  109
237824192|Procambarus_alleni/1-109                    ..............................  109
237824194|Procambarus_acutus/1-109                    ..............................  109
237824196|Procambarus_liberorum/1-109                 ..............................  109
237824198|Procambarus_tenuis/1-109                    ..............................  109
239579903|Caenoncopus_cuspidatus/1-109                ..............................  109
239579905|Palaeoncopus_sp./1-109                      ..............................  109
239579909|Gnomulus_latoperculum/1-109                 ..............................  109
239579923|Caenoncopus_sp./1-109                       ..............................  109
239579925|Sandokan_tiomanensis/1-109                  ..............................  109
239579935|Sandokanidae_sp./1-109                      ..............................  109
240015304|Pseudosaldula_sp./1-109                     ..............................  109
240155937|Vandellia_sanguinea/1-109                   ..............................  109
253584690|Peltonychia_clavigera/1-109                 ..............................  109
253584694|Dongmoa_sp./1-109                           ..............................  109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
253584696|Ethobunus_zalmoxiformi/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
253584700|Gnomulus_rostratus/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
253584702|Gnomulus_dalat/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
253584704|Sandokan_truncatus/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934462|Supella_longipalpa/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934470|Coptopteryx_sp./1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934472|Dysaules_sp./1-109             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934474|Creobroter_laevicollis/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934476|Statilia_nemoralis/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934478|Anaxarcha_limbata/1-109         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934480|Amorphoscelis_singapor/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934482|Acanthops_sp./1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934486|Euchomenella_sp./1-109         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934488|Creobroter_sp./1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934492|Leptomantella_albella/1-109    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934494|Gimantis_insularis/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934496|Tropidomantis_tenera/1-109     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934498|Mantoida_sp./1-109             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934500|Mantoida_sp./1-109             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
255934502|Raptrix_fusca/1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                                        RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

253584696|Ethobunus_zalmoxiformi/1-109   ..............................   109
253584700|Gnomulus_rostratus/1-109       ..............................   109
253584702|Gnomulus_dalat/1-109           ..............................   109
253584704|Sandokan_truncatus/1-109       ..............................   109
255934462|Supella_longipalpa/1-109       ..............................   109
255934470|Coptopteryx_sp./1-109          ..............................   109
255934472|Dysaules_sp./1-109             ..............................   109
255934474|Creobroter_laevicollis/1-109   ..............................   109
255934476|Statilia_nemoralis/1-109       ..............................   109
255934478|Anaxarcha_limbata/1-109         ..............................   109
255934480|Amorphoscelis_singapor/1-109   ..............................   109
255934482|Acanthops_sp./1-109            ..............................   109
255934486|Euchomenella_sp./1-109         ..............................   109
255934488|Creobroter_sp./1-109           ..............................   109
255934492|Leptomantella_albella/1-109    ..............................   109
255934494|Gimantis_insularis/1-109       ..............................   109
255934496|Tropidomantis_tenera/1-109     ..............................   109
255934498|Mantoida_sp./1-109             ..............................   109
255934500|Mantoida_sp./1-109             ..............................   109
255934502|Raptrix_fusca/1-109            ..............................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                 3
                                                      2                                                                                                                                                 2
                                                      1                                                                                                                                                 1
255934508|Vates_sp./1-109                             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934510|Vates_sp./1-109                             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934514|Parastagmatoptera_sp./1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934516|Macromusonia_conspersa/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934518|Vates_sp./1-109                             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934520|Orthoderella_ornata/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934526|Tarachodes_sp./1-109                        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934528|Sibylla_pretiosa/1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934530|Ligaria_brevicollis/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934532|Hoplocorypha_sp./1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934538|Stagmomantis_sp./1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934540|Oxypilus_sp./1-109                          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934542|Otomantis_scutigera/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934544|Metallyticus_splendidu/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934546|Metallyticus_fallax/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934550|Tarachodes_afzelii/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934552|Eremoplana_infelix/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934554|Popa_undata/1-109                           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934556|Oxypilus_transvalensis/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
255934560|Amorphoscelis_austroge/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4 4
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255934508|Vates_sp./1-109                             ..............................  109
255934510|Vates_sp./1-109                             ..............................  109
255934514|Parastagmatoptera_sp./1-109                 ..............................  109
255934516|Macromusonia_conspersa/1-109                ..............................  109
255934518|Vates_sp./1-109                             ..............................  109
255934520|Orthoderella_ornata/1-109                   ..............................  109
255934526|Tarachodes_sp./1-109                        ..............................  109
255934528|Sibylla_pretiosa/1-109                      ..............................  109
255934530|Ligaria_brevicollis/1-109                   ..............................  109
255934532|Hoplocorypha_sp./1-109                      ..............................  109
255934538|Stagmomantis_sp./1-109                      ..............................  109
255934540|Oxypilus_sp./1-109                          ..............................  109
255934542|Otomantis_scutigera/1-109                   ..............................  109
255934544|Metallyticus_splendidu/1-109                ..............................  109
255934546|Metallyticus_fallax/1-109                   ..............................  109
255934550|Tarachodes_afzelii/1-109                    ..............................  109
255934552|Eremoplana_infelix/1-109                    ..............................  109
255934554|Popa_undata/1-109                           ..............................  109
255934556|Oxypilus_transvalensis/1-109                ..............................  109
255934560|Amorphoscelis_austroge/1-109                ..............................  109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934562|Mantoida_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934564|Miomantis_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934566|Entella_delalandi/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934570|Dystacta_alticeps/1-109                                                                                                                                                                                                                                                                                                                                
255934572|Bolbella_punctigera/1-109                                                                                                                                                                                                                                
255934574|Hoplocorypha_sp./1-109                                                                                                                                
255934576|Miomantis_sp./1-109                                                                                                
255934578|Eremiaphila_sp./1-109                                                
255934580|Miomantis_sp./1-109                                
255934582|Leptomantella_sp./1-109                
255934584|Euantissa_pulchra/1-109                
255934586|Dysaules_longicollis/1-109                
255934588|Raptrix_sp./1-109                
255934590|Pseudothespis_meghalay/1-109                
255934596|Chaeteessa_valida/1-109                
255934598|Panurgica_compressicol/1-109                
255934600|Tarachodes_dissimulato/1-109                
255934604|Miomantis_paykullii/1-109                
255934606|Oxypilus_hamatus/1-109                
255934612|Elmantis_nira/1-109                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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255934562|Mantoida_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934564|Miomantis_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934566|Entella_delalandi/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934570|Dystacta_alticeps/1-109                                                                                                                                                                                                                                
255934572|Bolbella_punctigera/1-109                                                                                                                                
255934574|Hoplocorypha_sp./1-109                                                                                                
255934576|Miomantis_sp./1-109                                                
255934578|Eremiaphila_sp./1-109                                
255934580|Miomantis_sp./1-109                
255934582|Leptomantella_sp./1-109                
255934584|Euantissa_pulchra/1-109                
255934586|Dysaules_longicollis/1-109                
255934588|Raptrix_sp./1-109                
255934590|Pseudothespis_meghalay/1-109                
255934596|Chaeteessa_valida/1-109                
255934598|Panurgica_compressicol/1-109                
255934600|Tarachodes_dissimulato/1-109                
255934604|Miomantis_paykullii/1-109                
255934606|Oxypilus_hamatus/1-109                
255934612|Elmantis_nira/1-109                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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255934614|Statilia_sp./1-109                  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934620|Bolbena_hottentotta/1-109             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934624|Thesprotiella_peruana/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934626|Blepharopsis_mendica/1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934628|Deroplatys_rhombica/1-109              ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934634|Stagmomantis_sp./1-109                ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934636|Hapalomantis_orba/1-109                ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934638|Oxypiloidea_subcornuta/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934640|Compsothespis_sp./1-109                ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934642|Oxyothespis_sp./1-109                  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934644|Leptocola_stanleyana/1-109             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934646|Sibylla_dives/1-109                    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934648|Junodia_amoena/1-109                   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934650|Oxypilus_nigericus/1-109               ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934652|Galinthias_amoena/1-109                ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934654|Oxypiloidea_tridens/1-109               ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934658|Hapalomantis_congica/1-109             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934660|Bolbena_sp./1-109                      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934664|Oxyopsis_sp./1-109                     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934666|Photina_sp./1-109                      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                        RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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255934614|Statilia_sp./1-109                  ..................................     109
255934620|Bolbena_hottentotta/1-109             ..................................     109
255934624|Thesprotiella_peruana/1-109           ..................................     109
255934626|Blepharopsis_mendica/1-109            ..................................     109
255934628|Deroplatys_rhombica/1-109              ..................................     109
255934634|Stagmomantis_sp./1-109                ..................................     109
255934636|Hapalomantis_orba/1-109                ..................................     109
255934638|Oxypiloidea_subcornuta/1-109           ..................................     109
255934640|Compsothespis_sp./1-109                ..................................     109
255934642|Oxyothespis_sp./1-109                  ..................................     109
255934644|Leptocola_stanleyana/1-109             ..................................     109
255934646|Sibylla_dives/1-109                    ..................................     109
255934648|Junodia_amoena/1-109                   ..................................     109
255934650|Oxypilus_nigericus/1-109               ..................................     109
255934652|Galinthias_amoena/1-109                ..................................     109
255934654|Oxypiloidea_tridens/1-109               ..................................     109
255934658|Hapalomantis_congica/1-109             ..................................     109
255934660|Bolbena_sp./1-109                      ..................................     109
255934664|Oxyopsis_sp./1-109                     ..................................     109
255934666|Photina_sp./1-109                      ..................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                   4 ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
255934670|Hestiasula_masoni/1-109      ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934672|Ligentella_beieri/1-109       ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934674|Entelloptera_rogenhofe/1-109 ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934676|Rogermantis_royi/1-109       ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934678|Namamantis_nigropuncta/1-109 ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934682|Entella_orientalis/1-109     ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934684|Antistia_maculipennis/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934686|Kongobatha_diademata/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934688|Danuriini_gen./1-109         ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934690|Cilnia_humeralis/1-109       ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934692|Tarachodula_pantherina/1-109 ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934698|Pseudovates_denticulat/1-109 ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934700|Thesprotia_macilenta/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934708|Amorphoscelis_sp./1-109      ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934710|Amorphoscelis_borneana/1-109 ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934714|Psychomantis_borneensi/1-109 ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934716|Acromantis_sp./1-109         ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934718|Leptomantella_sp./1-109      ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934720|Miromantis_mirandula/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
255934724|Ceratomantis_kimberlae/1-109 ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                              RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                   4 ]                                 [ 4
                                       3 ]                                 [ 3
                                       2 ]                                 [ 2
                                       1 ]                                 [ 1
255934670|Hestiasula_masoni/1-109      ..................................     109
255934672|Ligentella_beieri/1-109      ..................................     109
255934674|Entelloptera_rogenhofe/1-109 ..................................     109
255934676|Rogermantis_royi/1-109       ..................................     109
255934678|Namamantis_nigropuncta/1-109 ..................................     109
255934682|Entella_orientalis/1-109     ..................................     109
255934684|Antistia_maculipennis/1-109  ..................................     109
255934686|Kongobatha_diademata/1-109   ..................................     109
255934688|Danuriini_gen./1-109         ..................................     109
255934690|Cilnia_humeralis/1-109       ..................................     109
255934692|Tarachodula_pantherina/1-109 ..................................     109
255934698|Pseudovates_denticulat/1-109 ..................................     109
255934700|Thesprotia_macilenta/1-109   ..................................     109
255934708|Amorphoscelis_sp./1-109      ..................................     109
255934710|Amorphoscelis_borneana/1-109 ..................................     109
255934714|Psychomantis_borneensi/1-109 ..................................     109
255934716|Acromantis_sp./1-109         ..................................     109
255934718|Leptomantella_sp./1-109      ..................................     109
255934720|Miromantis_mirandula/1-109   ..................................     109
255934724|Ceratomantis_kimberlae/1-109 ..................................     109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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255934728|Ceratocrania_macra/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934732|Ephippiomantis_ophiren/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934734|Bimantis_malaccana/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934740|Statilia_maculata/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934742|Amorphoscelis_sp./1-109                                                                                                                                                                                                                                
255934746|Acromantis_sp./1-109                                                                                                                                                                                                                                
255934750|Hierodulella_reticulat/1-109                                                                                                                                                                                                                
255934754|Rhombodera_basalis/1-109                                                                                                                                                                                                                
255934762|Deroplatys_desiccata/1-109                                                                                                                                                                                                                
255934764|Deroplatys_truncata/1-109                                                                                                                                                                                                                
257783308|Dendrothereua_homa/1-109                                                                                                                                                                                                                
257783330|Allothereua_linderi/1-109                                                                                                                                                                                                                
257783346|Parascutigera_sp./1-109                                                                                                                                                                                                                
257783348|Parascutigera_sp./1-109                                                                                                                                                                                                                
257783350|Parascutigera_sp./1-109                                                                                                                                                                                                                
257783354|Parascutigera_sphinx/1-109                                                                                                                                                                                                                
257783360|Pilbarascutigera_incol/1-109                                                                                                                                                                                                                
257786666|Ameletus_montanus/1-109                                                                                                                                                                                                                
257786674|Paraleptophlebia_choco/1-109                                                                                                                                                                                                                
260850275|Virilastacus_araucaniu/1-109                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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255934728|Ceratocrania_macra/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934732|Ephippiomantis_ophiren/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934734|Bimantis_malaccana/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934740|Statilia_maculata/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255934742|Amorphoscelis_sp./1-109                                                                                                                                                                                                                                
255934746|Acromantis_sp./1-109                                                                                                                                                                                                                                
255934750|Hierodulella_reticulat/1-109                                                                                                                                                                                                                
255934754|Rhombodera_basalis/1-109                                                                                                                                                                                                                
255934762|Deroplatys_desiccata/1-109                                                                                                                                                                                                                
255934764|Deroplatys_truncata/1-109                                                                                                                                                                                                                
257783308|Dendrothereua_homa/1-109                                                                                                                                                                                                                
257783330|Allothereua_linderi/1-109                                                                                                                                                                                                                
257783346|Parascutigera_sp./1-109                                                                                                                                                                                                                
257783348|Parascutigera_sp./1-109                                                                                                                                                                                                                
257783350|Parascutigera_sp./1-109                                                                                                                                                                                                                
257783354|Parascutigera_sphinx/1-109                                                                                                                                                                                                                
257783360|Pilbarascutigera_incol/1-109                                                                                                                                                                                                                
257786666|Ameletus_montanus/1-109                                                                                                                                                                                                                
257786674|Paraleptophlebia_choco/1-109                                                                                                                                                                                                                
260850275|Virilastacus_araucaniu/1-109                                                                                                                                                                                                                
consensus
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109
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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261942203|Dysdera_adriatica/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
261942207|Dysdera_lantosquensis/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
261942211|Dysdera_lusitanica/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
261942217|Dysdera_valentina/1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262068513|Drapetisca_socialis/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262068515|Dubiaranea_aysenensis/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262068521|Gongylidiellum_vivum/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262068525|Haplinis_diloris/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262068529|Linyphiidae_cf./1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262068531|Meioneta_rurestris/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262068537|Novafroneta_vulgaris/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262068541|Ostearius_melanopygius/1-109     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262068543|Pocobletus_sp./1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262068545|Pseudafroneta_incerta/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262178616|Selenops_bifurcatus/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262178692|Selenops_insularis/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262178810|Selenops_sp./1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262178872|Selenops_lindborgi/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262179116|Selenops_mexicanus/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
262179176|Selenops_micropalpus/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                       RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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261942203|Dysdera_adriatica/1-109          ..................................     109
261942207|Dysdera_lantosquensis/1-109      ..................................     109
261942211|Dysdera_lusitanica/1-109         ..................................     109
261942217|Dysdera_valentina/1-109          ..................................     109
262068513|Drapetisca_socialis/1-109        ..................................     109
262068515|Dubiaranea_aysenensis/1-109      ..................................     109
262068521|Gongylidiellum_vivum/1-109       ..................................     109
262068525|Haplinis_diloris/1-109           ..................................     109
262068529|Linyphiidae_cf./1-109            ..................................     109
262068531|Meioneta_rurestris/1-109         ..................................     109
262068537|Novafroneta_vulgaris/1-109       ..................................     109
262068541|Ostearius_melanopygius/1-109     ..................................     109
262068543|Pocobletus_sp./1-109             ..................................     109
262068545|Pseudafroneta_incerta/1-109      ..................................     109
262178616|Selenops_bifurcatus/1-109        ..................................     109
262178692|Selenops_insularis/1-109         ..................................     109
262178810|Selenops_sp./1-109               ..................................     109
262178872|Selenops_lindborgi/1-109         ..................................     109
262179116|Selenops_mexicanus/1-109         ..................................     109
262179176|Selenops_micropalpus/1-109       ..................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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262179250|Selenops_sp./1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687381|Agriades_glandon/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687383|Plebejus_pheretiades/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687385|Plebejus_podarce/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687387|Plebejus_dardanus/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687389|Agrodiaetus_damon/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687391|Albulina_orbitulus/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687393|Aricia_agestis/1-109                   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687395|Chilades_lajus/1-109                   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687397|Cupido_minimus/1-109                   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687401|Echinargus_huntingtoni/1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687403|Echinargus_isola/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687405|Echinargus_martha/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687407|Chilades_pandava/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687409|Eldoradina_cyanea/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687411|Aricia_eumedon/1-109                   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687413|Cupido_comyntas/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687415|Chilades_trochylus/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687419|Hemiargus_hanno/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687421|Hemiargus_ceraunus/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                                RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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262179250|Selenops_sp./1-109                  ..................................     109
264687381|Agriades_glandon/1-109                  ..................................     109
264687383|Plebejus_pheretiades/1-109             ..................................     109
264687385|Plebejus_podarce/1-109                 ..................................     109
264687387|Plebejus_dardanus/1-109                ..................................     109
264687389|Agrodiaetus_damon/1-109                ..................................     109
264687391|Albulina_orbitulus/1-109               ..................................     109
264687393|Aricia_agestis/1-109                   ..................................     109
264687395|Chilades_lajus/1-109                   ..................................     109
264687397|Cupido_minimus/1-109                   ..................................     109
264687401|Echinargus_huntingtoni/1-109           ..................................     109
264687403|Echinargus_isola/1-109                 ..................................     109
264687405|Echinargus_martha/1-109                ..................................     109
264687407|Chilades_pandava/1-109                 ..................................     109
264687409|Eldoradina_cyanea/1-109                ..................................     109
264687411|Aricia_eumedon/1-109                   ..................................     109
264687413|Cupido_comyntas/1-109                  ..................................     109
264687415|Chilades_trochylus/1-109               ..................................     109
264687419|Hemiargus_hanno/1-109                  ..................................     109
264687421|Hemiargus_ceraunus/1-109               ..................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                   4]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                       1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
264687425|Hemiargus_ceraunus/1-109   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687427|Hemiargus_ramon/1-109       ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687429|Aricia_acmon/1-109          ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687431|Aricia_icarioides/1-109    ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687433|Aricia_lupini/1-109         ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687435|Aricia_neurona/1-109        ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687437|Aricia_shasta/1-109         ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687439|Aricia_sp./1-109            ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687441|Itylos_mashenka/1-109       ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687443|Itylos_titicaca/1-109       ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687445|Leptotes_trigemmatus/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687447|Plebejus_anna/1-109         ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687449|Lycaeides_argyrognomon/1-109 ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687451|Plebejus_idas/1-109         ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687453|Plebejus_calliopis/1-109    ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687455|Lycaeides_melissa/1-109     ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687457|Lysandra_coridon/1-109      ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687459|Madeleinea_cobaltana/1-109  ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687461|Madeleinea_huascarana/1-109 ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
264687465|Madeleinea_nodo/1-109       ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                              RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                   3]                                  [3
                                       2]                                  [2
                                       1]                                  [1
264687425|Hemiargus_ceraunus/1-109   ..................................     109
264687427|Hemiargus_ramon/1-109      ..................................     109
264687429|Aricia_acmon/1-109         ..................................     109
264687431|Aricia_icarioides/1-109    ..................................     109
264687433|Aricia_lupini/1-109        ..................................     109
264687435|Aricia_neurona/1-109       ..................................     109
264687437|Aricia_shasta/1-109        ..................................     109
264687439|Aricia_sp./1-109           ..................................     109
264687441|Itylos_mashenka/1-109      ..................................     109
264687443|Itylos_titicaca/1-109      ..................................     109
264687445|Leptotes_trigemmatus/1-109 ..................................     109
264687447|Plebejus_anna/1-109        ..................................     109
264687449|Lycaeides_argyrognomon/1-109 ................................     109
264687451|Plebejus_idas/1-109        ..................................     109
264687453|Plebejus_calliopis/1-109   ..................................     109
264687455|Lycaeides_melissa/1-109    ..................................     109
264687457|Lysandra_coridon/1-109     ..................................     109
264687459|Madeleinea_cobaltana/1-109 ..................................     109
264687461|Madeleinea_huascarana/1-109 ................................     109
264687465|Madeleinea_nodo/1-109      ..................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
264687469|Madeleinea_pelorias/1-109      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687471|Madeleinea_sigal/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687473|Madeleinea_tintarrona/1-109    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687477|Nabokovia_faga/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687479|Paralycaeides_inconspi/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687483|Albulina_loewii/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687485|Plebejus_pylaon/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687487|Plebejus_argus/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687489|Plebejus_emigdionis/1-109      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687491|Polyommatus_icarus/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687493|Aricia_nicias/1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687495|Pseudochrysops_bornoi/1-109    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687499|Pseudolucia_andina/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687501|Pseudolucia_annamaria/1-109    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687503|Pseudolucia_asafi/1-109        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687505|Pseudolucia_charlotte/1-109    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687507|Pseudolucia_chilensis/1-109    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687509|Pseudolucia_collina/1-109      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687511|Pseudolucia_grata/1-109        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687513|Pseudolucia_henyah/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                         RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo

264687469|Madeleinea_pelorias/1-109      ..............................     109
264687471|Madeleinea_sigal/1-109          ..............................     109
264687473|Madeleinea_tintarrona/1-109    ..............................     109
264687477|Nabokovia_faga/1-109           ..............................     109
264687479|Paralycaeides_inconspi/1-109   ..............................     109
264687483|Albulina_loewii/1-109          ..............................     109
264687485|Plebejus_pylaon/1-109          ..............................     109
264687487|Plebejus_argus/1-109           ..............................     109
264687489|Plebejus_emigdionis/1-109      ..............................     109
264687491|Polyommatus_icarus/1-109       ..............................     109
264687493|Aricia_nicias/1-109            ..............................     109
264687495|Pseudochrysops_bornoi/1-109    ..............................     109
264687499|Pseudolucia_andina/1-109       ..............................     109
264687501|Pseudolucia_annamaria/1-109    ..............................     109
264687503|Pseudolucia_asafi/1-109        ..............................     109
264687505|Pseudolucia_charlotte/1-109    ..............................     109
264687507|Pseudolucia_chilensis/1-109    ..............................     109
264687509|Pseudolucia_collina/1-109      ..............................     109
264687511|Pseudolucia_grata/1-109        ..............................     109
264687513|Pseudolucia_henyah/1-109       ..............................     109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

264687515|Pseudolucia_patago/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687519|Pseudolucia_sibylla/1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687521|Pseudolucia_tamara/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687523|Pseudolucia_vera/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687525|Talicada_nyseus/1-109                     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687527|Tongeia_fischeri/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687529|Albulina_optilete/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687531|Albulina_optilete/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687533|Actizera_lucida/1-109                     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687535|Anthene_emolus/1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687537|Azanus_mirza/1-109                        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687539|Cacyreus_marshalli/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687541|Caleta_elna/1-109                         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687543|Castalius_rosimon/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687545|Catochrysops_panormus/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687547|Celastrina_echo/1-109                     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687553|Euphilotes_enoptes/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687555|Famegana_alsulus/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687557|Glaucopsyche_lygdamus/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
264687559|Jamides_alecto/1-109                     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                                            RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

264687515|Pseudolucia_patago/1-109                  ..............................  109
264687519|Pseudolucia_sibylla/1-109                 ..............................  109
264687521|Pseudolucia_tamara/1-109                  ..............................  109
264687523|Pseudolucia_vera/1-109                    ..............................  109
264687525|Talicada_nyseus/1-109                     ..............................  109
264687527|Tongeia_fischeri/1-109                    ..............................  109
264687529|Albulina_optilete/1-109                   ..............................  109
264687531|Albulina_optilete/1-109                   ..............................  109
264687533|Actizera_lucida/1-109                     ..............................  109
264687535|Anthene_emolus/1-109                      ..............................  109
264687537|Azanus_mirza/1-109                        ..............................  109
264687539|Cacyreus_marshalli/1-109                  ..............................  109
264687541|Caleta_elna/1-109                         ..............................  109
264687543|Castalius_rosimon/1-109                   ..............................  109
264687545|Catochrysops_panormus/1-109               ..............................  109
264687547|Celastrina_echo/1-109                     ..............................  109
264687553|Euphilotes_enoptes/1-109                  ..............................  109
264687555|Famegana_alsulus/1-109                    ..............................  109
264687557|Glaucopsyche_lygdamus/1-109               ..............................  109
264687559|Jamides_alecto/1-109                      ..............................  109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
264687561|Lampides_boeticus/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687563|Lepidochrysops_dukei/1-109         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687565|Leptotes_marina/1-109              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687567|Lycaenopsis_haraldus/1-109         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687569|Maculinea_arion/1-109              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687571|Nacaduba_angusta/1-109             .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687573|Anthene_staudingeri/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687575|Oraidium_barberae/1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687577|Phlyaria_cyara/1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687579|Pithecops_corvus/1-109              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687581|Pithecops_dionisius/1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687583|Pseudonacaduba_aethiop/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687585|Psychonotis_caelius/1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687589|Una_usta/1-109                      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687591|Uranothauma_falkenstei/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687593|Zintha_hintza/1-109                 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
264687595|Zizeeria_karsandra/1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
265267336|Anacridium_aegyptium/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
265267338|Acrida_turrita/1-109                .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
265267340|Sphingonotus_sp./1-109              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                              RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

264687561|Lampides_boeticus/1-109          ..............................     109
264687563|Lepidochrysops_dukei/1-109         ..............................     109
264687565|Leptotes_marina/1-109              ..............................     109
264687567|Lycaenopsis_haraldus/1-109         ..............................     109
264687569|Maculinea_arion/1-109              ..............................     109
264687571|Nacaduba_angusta/1-109             ..............................     109
264687573|Anthene_staudingeri/1-109          ..............................     109
264687575|Oraidium_barberae/1-109            ..............................     109
264687577|Phlyaria_cyara/1-109               ..............................     109
264687579|Pithecops_corvus/1-109              ..............................     109
264687581|Pithecops_dionisius/1-109           ..............................     109
264687583|Pseudonacaduba_aethiop/1-109        ..............................     109
264687585|Psychonotis_caelius/1-109           ..............................     109
264687589|Una_usta/1-109                      ..............................     109
264687591|Uranothauma_falkenstei/1-109        ..............................     109
264687593|Zintha_hintza/1-109                 ..............................     109
264687595|Zizeeria_karsandra/1-109            ..............................     109
265267336|Anacridium_aegyptium/1-109          ..............................     109
265267338|Acrida_turrita/1-109                ..............................     109
265267340|Sphingonotus_sp./1-109              ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
265267342|Dermestes_maculatus/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267344|Pimelia_sp./1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267346|Forficula_auricularia/1-109 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267348|Apterygida_media/1-109      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267350|Acheta_domesticus/1-109     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267352|Ecdyonurus_sp./1-109        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267354|Baetis_sp./1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267356|Siphlonurus_aestivalis/1-109 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267358|Nomada_sp./1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267364|Cynipidae_gen./1-109        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267366|Mastotermes_darwiniens/1-109 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267368|Pieris_napi/1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267370|Phaeostigma_sp./1-109        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267372|Pieris_rapae/1-109           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267374|Eurrhypara_hortulata/1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267376|Rhombodera_sp./1-109        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267378|Hierodula_membranacea/1-109 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267380|Mantophasma_zephyra/1-109   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267384|Boreus_hyemalis/1-109       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
265267388|Boyeria_irene/1-109         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                                      RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

265267342|Dermestes_maculatus/1-109   ..............................    109
265267344|Pimelia_sp./1-109           ..............................    109
265267346|Forficula_auricularia/1-109 ..............................    109
265267348|Apterygida_media/1-109      ..............................    109
265267350|Acheta_domesticus/1-109     ..............................    109
265267352|Ecdyonurus_sp./1-109        ..............................    109
265267354|Baetis_sp./1-109            ..............................    109
265267356|Siphlonurus_aestivalis/1-109 ..............................    109
265267358|Nomada_sp./1-109            ..............................    109
265267364|Cynipidae_gen./1-109        ..............................    109
265267366|Mastotermes_darwiniens/1-109 ..............................    109
265267368|Pieris_napi/1-109            ..............................    109
265267370|Phaeostigma_sp./1-109        ..............................    109
265267372|Pieris_rapae/1-109           ..............................    109
265267374|Eurrhypara_hortulata/1-109  ..............................    109
265267376|Rhombodera_sp./1-109        ..............................    109
265267378|Hierodula_membranacea/1-109 ..............................    109
265267380|Mantophasma_zephyra/1-109   ..............................    109
265267384|Boreus_hyemalis/1-109       ..............................    109
265267388|Boyeria_irene/1-109         ..............................    109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
265267390|Elattoneura_glauca/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
265267394|Nemoura_cinerea/1-109              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
265267396|Aphididae_gen./1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
265267398|Pulvinaria_regalis/1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
270267077|Phyllomedusa_hypochond/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
270267079|Stefania_ginesi/1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
270267081|Brachycephalus_ephippi/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
270267083|Eleutherodactylus_cook/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
270267085|Diasporus_diastema/1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
270267087|Adelophryne_gutturosa/1-109         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
270267089|Pristimantis_cruentus/1-109         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
270267091|Phrynopus_bracki/1-109              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
270267093|Hypodactylus_brunneus/1-109         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
270267095|Psychrophrynella_wetts/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
270267097|Ceuthomantis_smaragdin/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
281313134|Endeis_spinosa/1-109                .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
281313136|Tanystylum_sp./1-109                .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
281313138|Ammothea_sp./1-109                  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
281313140|Nymphon_gracile/1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
281313142|Rhopalorhynchus_filipe/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                              RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

265267390|Elattoneura_glauca/1-109          ..............................     109
265267394|Nemoura_cinerea/1-109              ..............................     109
265267396|Aphididae_gen./1-109               ..............................     109
265267398|Pulvinaria_regalis/1-109           ..............................     109
270267077|Phyllomedusa_hypochond/1-109       ..............................     109
270267079|Stefania_ginesi/1-109              ..............................     109
270267081|Brachycephalus_ephippi/1-109       ..............................     109
270267083|Eleutherodactylus_cook/1-109       ..............................     109
270267085|Diasporus_diastema/1-109           ..............................     109
270267087|Adelophryne_gutturosa/1-109        ..............................     109
270267089|Pristimantis_cruentus/1-109        ..............................     109
270267091|Phrynopus_bracki/1-109             ..............................     109
270267093|Hypodactylus_brunneus/1-109        ..............................     109
270267095|Psychrophrynella_wetts/1-109       ..............................     109
270267097|Ceuthomantis_smaragdin/1-109       ..............................     109
281313134|Endeis_spinosa/1-109               ..............................     109
281313136|Tanystylum_sp./1-109               ..............................     109
281313138|Ammothea_sp./1-109                 ..............................     109
281313140|Nymphon_gracile/1-109              ..............................     109
281313142|Rhopalorhynchus_filipe/1-109       ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                 3
                                                      2                                                                                                                                                 2
                                                      1                                                                                                                                                 1
281313144|Colossendeis_macerrima/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
281313148|Achelia_hispida/1-109                       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
281323540|Stylocellus_sp./1-109                       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
281323544|Stylocellus_sp./1-109                       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
281323562|Stylocellus_sp./1-109                       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
281323564|Stylocellus_sp./1-109                       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
281323570|Stylocellus_sp./1-109                       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
281323576|Stylocellus_sp./1-109                       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
282762198|Ikuma_sp./1-109                             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
282762200|Adonea_fimbriata/1-109                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
282762202|Cavernocymbium_prentog/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
282762204|Chresiona_sp./1-109                         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
282762206|Chumma_inquieta/1-109                       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
282762208|Cybaeolus_sp./1-109                         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
282762210|Desis_formidabilis/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
282762212|Dorceus_fastuosus/1-109                     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
282762214|Dresserus_kannemeyeri/1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
282762216|Eresus_sp./1-109                            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
282762218|Eresus_cf./1-109                            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
282762220|Eresus_walckenaeri/1-109                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4
                                                      3
                                                      2
                                                      1
281313144|Colossendeis_macerrima/1-109                ..............................    109
281313148|Achelia_hispida/1-109                       ..............................    109
281323540|Stylocellus_sp./1-109                       ..............................    109
281323544|Stylocellus_sp./1-109                       ..............................    109
281323562|Stylocellus_sp./1-109                       ..............................    109
281323564|Stylocellus_sp./1-109                       ..............................    109
281323570|Stylocellus_sp./1-109                       ..............................    109
281323576|Stylocellus_sp./1-109                       ..............................    109
282762198|Ikuma_sp./1-109                             ..............................    109
282762200|Adonea_fimbriata/1-109                      ..............................    109
282762202|Cavernocymbium_prentog/1-109                ..............................    109
282762204|Chresiona_sp./1-109                         ..............................    109
282762206|Chumma_inquieta/1-109                       ..............................    109
282762208|Cybaeolus_sp./1-109                         ..............................    109
282762210|Desis_formidabilis/1-109                    ..............................    109
282762212|Dorceus_fastuosus/1-109                     ..............................    109
282762214|Dresserus_kannemeyeri/1-109                 ..............................    109
282762216|Eresus_sp./1-109                            ..............................    109
282762218|Eresus_cf./1-109                            ..............................    109
282762220|Eresus_walckenaeri/1-109                    ..............................    109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                  RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

282762222|Stegodyphus_annulipes/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762224|Gandanameno_sp./1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762230|Gandanameno_fumosa/1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762232|Hahnia_clathrata/1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762238|cf._Aschema/1-109               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762240|Oecobius_sp./1-109              ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762242|Oncodamus_decipiens/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762244|Penestomus_sp./1-109            ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762248|Seothyra_annettae/1-109         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762250|Stegodyphus_tentoriico/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762256|Taira_sp./1-109                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762258|Tamgrinia_alveolifera/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762260|Tricholathys_sp./1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762262|Uroctea_durandi/1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762264|Vidole_capensis/1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762266|Zanomys_californica/1-109       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
282762268|Zodarion_sp./1-109              ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
283972987|Grylloblatta_bifratril/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
283972989|Grylloblatta_sp./1-109          ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
283972991|Grylloblatta_chandleri/1-109    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

282762222|Stegodyphus_annulipes/1-109      ..............................  109
282762224|Gandanameno_sp./1-109           ..............................  109
282762230|Gandanameno_fumosa/1-109        ..............................  109
282762232|Hahnia_clathrata/1-109          ..............................  109
282762238|cf._Aschema/1-109               ..............................  109
282762240|Oecobius_sp./1-109              ..............................  109
282762242|Oncodamus_decipiens/1-109       ..............................  109
282762244|Penestomus_sp./1-109            ..............................  109
282762248|Seothyra_annettae/1-109         ..............................  109
282762250|Stegodyphus_tentoriico/1-109    ..............................  109
282762256|Taira_sp./1-109                 ..............................  109
282762258|Tamgrinia_alveolifera/1-109     ..............................  109
282762260|Tricholathys_sp./1-109          ..............................  109
282762262|Uroctea_durandi/1-109           ..............................  109
282762264|Vidole_capensis/1-109           ..............................  109
282762266|Zanomys_californica/1-109       ..............................  109
282762268|Zodarion_sp./1-109              ..............................  109
283972987|Grylloblatta_bifratril/1-109    ..............................  109
283972989|Grylloblatta_sp./1-109          ..............................  109
283972991|Grylloblatta_chandleri/1-109    ..............................  109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                      4 3 2 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 3 2 1
283972993|Grylloblatta_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
283972995|Grylloblatta_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
283972997|Grylloblatta_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
283972999|Grylloblatta_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
283973001|Grylloblatta_washoa/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
283973015|Grylloblatta_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
283973025|Grylloblatta_barberi/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536467|Acrobleps_hygrophilus/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536469|Conculus_sp./1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536471|Acrobleps_sp./1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536473|Anapisona_kethleyi/1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536475|Crassanapis_chilensis/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536479|Microdipoena_guttata/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536483|Minanapis_casablanca/1-109     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536488|Maymena_sp./1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536490|Mysmena_sp./1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536492|Mysmeninae_sp./1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536494|Mysmena_sp./1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536496|Mysmeninae_sp./1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536502|Mysmena_sp./1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                     RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                      4 3 2 1                                 4 3 2 1
283972993|Grylloblatta_sp./1-109          ..................................      109
283972995|Grylloblatta_sp./1-109          ..................................      109
283972997|Grylloblatta_sp./1-109          ..................................      109
283972999|Grylloblatta_sp./1-109          ..................................      109
283973001|Grylloblatta_washoa/1-109       ..................................      109
283973015|Grylloblatta_sp./1-109          ..................................      109
283973025|Grylloblatta_barberi/1-109      ..................................      109
289536467|Acrobleps_hygrophilus/1-109     ..................................      109
289536469|Conculus_sp./1-109              ..................................      109
289536471|Acrobleps_sp./1-109             ..................................      109
289536473|Anapisona_kethleyi/1-109        ..................................      109
289536475|Crassanapis_chilensis/1-109     ..................................      109
289536479|Microdipoena_guttata/1-109      ..................................      109
289536483|Minanapis_casablanca/1-109      ..................................      109
289536488|Maymena_sp./1-109               ..................................      109
289536490|Mysmena_sp./1-109               ..................................      109
289536492|Mysmeninae_sp./1-109            ..................................      109
289536494|Mysmena_sp./1-109               ..................................      109
289536496|Mysmeninae_sp./1-109            ..................................      109
289536502|Mysmena_sp./1-109               ..................................      109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                   4 ┐                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                       1 ┘
289536506|Mysmena_sp./1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536508|Mysmena_sp./1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536510|Maymena_sp./1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536512|Mysmena_sp./1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536520|Mysmeninae_sp./1-109         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536524|Trogloneta_sp./1-109         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536534|Mysmeninae_sp./1-109         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536536|Mysmena_sp./1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536538|Mysmena_sp./1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536540|Mysmena_sp./1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536542|Mysmena_sp./1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536546|Mysmena_sp./1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536550|Mysmena_sp./1-109            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536554|Patu_sp./1-109               ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536558|Symphytognathidae_sp./1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536560|Symphytognathidae_sp./1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536562|Symphytognathidae_sp./1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536564|Symphytognathidae_sp./1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536568|Theridiosomatidae_sp./1-109  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
289536570|Coddingtonia_euryopoid/1-109 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                              RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                   4 ┐                                  ┌ 4
                                       3 │                                  │ 3
                                       2 │                                  │ 2
                                       1 ┘                                  └ 1

289536506|Mysmena_sp./1-109            ..................................     109
289536508|Mysmena_sp./1-109            ..................................     109
289536510|Maymena_sp./1-109            ..................................     109
289536512|Mysmena_sp./1-109            ..................................     109
289536520|Mysmeninae_sp./1-109         ..................................     109
289536524|Trogloneta_sp./1-109         ..................................     109
289536534|Mysmeninae_sp./1-109         ..................................     109
289536536|Mysmena_sp./1-109            ..................................     109
289536538|Mysmena_sp./1-109            ..................................     109
289536540|Mysmena_sp./1-109            ..................................     109
289536542|Mysmena_sp./1-109            ..................................     109
289536546|Mysmena_sp./1-109            ..................................     109
289536550|Mysmena_sp./1-109            ..................................     109
289536554|Patu_sp./1-109               ..................................     109
289536558|Symphytognathidae_sp./1-109  ..................................     109
289536560|Symphytognathidae_sp./1-109  ..................................     109
289536562|Symphytognathidae_sp./1-109  ..................................     109
289536564|Symphytognathidae_sp./1-109  ..................................     109
289536568|Theridiosomatidae_sp./1-109  ..................................     109
289536570|Coddingtonia_euryopoid/1-109 ..................................     109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                  4 3 2 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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290465421|Carlius_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465423|Carlius_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465425|Carlius_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465427|Asprenas_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465429|Asprenas_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465431|Asprenas_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465433|Canachus_alligator/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465435|Canachus_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465439|Canachus_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465441|Cnipsus_rachis/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465445|Graeffea_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465447|Graeffea_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465449|Graeffea_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465451|Hermarchus_sp./1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465455|Acrophylla_wuelfingi/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465457|Podacanthus_wilkinsoni/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465471|Phasmatidae_sp./1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465473|Phasmatidae_sp./1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465475|Carlius_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465477|Phasmatidae_sp./1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                  4 3 2 1                                 4 3 2 1
290465421|Carlius_sp./1-109          ..............................      109
290465423|Carlius_sp./1-109          ..............................      109
290465425|Carlius_sp./1-109          ..............................      109
290465427|Asprenas_sp./1-109         ..............................      109
290465429|Asprenas_sp./1-109         ..............................      109
290465431|Asprenas_sp./1-109         ..............................      109
290465433|Canachus_alligator/1-109   ..............................      109
290465435|Canachus_sp./1-109         ..............................      109
290465439|Canachus_sp./1-109         ..............................      109
290465441|Cnipsus_rachis/1-109       ..............................      109
290465445|Graeffea_sp./1-109         ..............................      109
290465447|Graeffea_sp./1-109         ..............................      109
290465449|Graeffea_sp./1-109         ..............................      109
290465451|Hermarchus_sp./1-109       ..............................      109
290465455|Acrophylla_wuelfingi/1-109 ..............................      109
290465457|Podacanthus_wilkinsoni/1-109 ............................      109
290465471|Phasmatidae_sp./1-109      ..............................      109
290465473|Phasmatidae_sp./1-109      ..............................      109
290465475|Carlius_sp./1-109          ..............................      109
290465477|Phasmatidae_sp./1-109      ..............................      109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
290465479|Phasmatidae_sp./1-109  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465481|Phasmatidae_sp./1-109  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465483|Phasmatidae_sp./1-109  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465485|Phasmatidae_sp./1-109  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465487|Carlius_sp./1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465489|Phasmatidae_sp./1-109  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465493|Anchiale_sp./1-109     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290465495|Phasmatidae_sp./1-109  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290750957|Tectura_testudinalis/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290750961|Lottia_gigantea/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290750963|Lottia_jamaicensis/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290750965|Lottia_asmi/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290750967|Paralepetopsis_sp./1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290750969|Pyropelta_sp./1-109     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290750971|Diodora_dysoni/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290750975|Fissurella_nodosa/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290750977|Puncturella_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290750979|Lucapina_suffusa/1-109  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290750981|Hemitoma_octoradiata/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
290750983|Haliotis_corrugata/1-109 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                           RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

290465479|Phasmatidae_sp./1-109  ..............................  109
290465481|Phasmatidae_sp./1-109  ..............................  109
290465483|Phasmatidae_sp./1-109  ..............................  109
290465485|Phasmatidae_sp./1-109  ..............................  109
290465487|Carlius_sp./1-109      ..............................  109
290465489|Phasmatidae_sp./1-109  ..............................  109
290465493|Anchiale_sp./1-109     ..............................  109
290465495|Phasmatidae_sp./1-109  ..............................  109
290750957|Tectura_testudinalis/1-109 ..........................  109
290750961|Lottia_gigantea/1-109  ..............................  109
290750963|Lottia_jamaicensis/1-109 ............................  109
290750965|Lottia_asmi/1-109      ..............................  109
290750967|Paralepetopsis_sp./1-109 ...........................  109
290750969|Pyropelta_sp./1-109    ..............................  109
290750971|Diodora_dysoni/1-109   ..............................  109
290750975|Fissurella_nodosa/1-109 ............................  109
290750977|Puncturella_sp./1-109  ..............................  109
290750979|Lucapina_suffusa/1-109 ..............................  109
290750981|Hemitoma_octoradiata/1-109 ..........................  109
290750983|Haliotis_corrugata/1-109 ............................  109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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290750985|Gibbula_cineraria/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
290750987|Cittarium_pica/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
290750991|Cantrainea_macleani/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
290750993|Astralium_phoebium/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
290750995|Turbo_castanea/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
290750997|Marevalvata_sp./1-109        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
290750999|Lepetodrilus_pustulosu/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
290751001|Peltospira_delicata/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
290751005|Bathynerita_naticoidea/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
296125041|Damalinia_meyeri/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
300393383|Berthella_martensi/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
300393385|Peltodoris_nobilis/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
300393387|Hypselodoris_picta/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
300393389|Glossodoris_edmundsi/1-109  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
300393391|Mandelia_mirocornata/1-109  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
300393393|Polycera_cf./1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
300393395|Roboastra_ricei/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
300393397|Tambja_marbellensis/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
300393399|Triopha_catalinae/1-109     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
300393401|Triopha_maculata/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                               RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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290750985|Gibbula_cineraria/1-109      ..................................     109
290750987|Cittarium_pica/1-109         ..................................     109
290750991|Cantrainea_macleani/1-109    ..................................     109
290750993|Astralium_phoebium/1-109     ..................................     109
290750995|Turbo_castanea/1-109         ..................................     109
290750997|Marevalvata_sp./1-109        ..................................     109
290750999|Lepetodrilus_pustulosu/1-109 ..................................     109
290751001|Peltospira_delicata/1-109    ..................................     109
290751005|Bathynerita_naticoidea/1-109 ..................................     109
296125041|Damalinia_meyeri/1-109       ..................................     109
300393383|Berthella_martensi/1-109     ..................................     109
300393385|Peltodoris_nobilis/1-109     ..................................     109
300393387|Hypselodoris_picta/1-109     ..................................     109
300393389|Glossodoris_edmundsi/1-109   ..................................     109
300393391|Mandelia_mirocornata/1-109   ..................................     109
300393393|Polycera_cf./1-109           ..................................     109
300393395|Roboastra_ricei/1-109        ..................................     109
300393397|Tambja_marbellensis/1-109    ..................................     109
300393399|Triopha_catalinae/1-109      ..................................     109
300393401|Triopha_maculata/1-109       ..................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300393403|Limacia_sp./1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393405|Limacia_sp./1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393409|Notodoris_gardineri/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393411|Armina_semperi/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393417|Dermatobranchus_sp./1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393419|Dermatobranchus_pustul/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393421|Dermatobranchus_sp./1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393423|Dermatobranchus_sp./1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393427|Dermatobranchus_sp./1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393431|Dermatobranchus_sp./1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393433|Melibe_digitata/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393435|Melibe_viridis/1-109                .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393437|Melibe_engeli/1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393439|Melibe_rosea/1-109                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393441|Hancockia_californica/1-109         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393443|Hancockia_cf./1-109                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393445|Bornella_stellifer/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393447|Bornella_johnsonorum/1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393449|Bornella_hermanni/1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393451|Bornella_valdae/1-109               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                                                            RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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300393403|Limacia_sp./1-109                  ..............................  109
300393405|Limacia_sp./1-109                  ..............................  109
300393409|Notodoris_gardineri/1-109          ..............................  109
300393411|Armina_semperi/1-109               ..............................  109
300393417|Dermatobranchus_sp./1-109           ..............................  109
300393419|Dermatobranchus_pustul/1-109       ..............................  109
300393421|Dermatobranchus_sp./1-109           ..............................  109
300393423|Dermatobranchus_sp./1-109           ..............................  109
300393427|Dermatobranchus_sp./1-109           ..............................  109
300393431|Dermatobranchus_sp./1-109           ..............................  109
300393433|Melibe_digitata/1-109               ..............................  109
300393435|Melibe_viridis/1-109                ..............................  109
300393437|Melibe_engeli/1-109                 ..............................  109
300393439|Melibe_rosea/1-109                  ..............................  109
300393441|Hancockia_californica/1-109         ..............................  109
300393443|Hancockia_cf./1-109                 ..............................  109
300393445|Bornella_stellifer/1-109            ..............................  109
300393447|Bornella_johnsonorum/1-109          ..............................  109
300393449|Bornella_hermanni/1-109             ..............................  109
300393451|Bornella_valdae/1-109               ..............................  109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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300393453|Bornella_calcarata/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300393455|Pseudobornella_orienta/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300393457|Dendronotus_regius/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300393459|Dendronotus_venustus/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300393463|Dendronotus_lacteus/1-109                                                                                                                                                                                                                                
300393465|Dendronotus_subramosus/1-109                                                                                                                
300393467|Scyllaea_pelagica/1-109                                                                                
300393469|Notobryon_sp./1-109                                                                
300393471|Notobryon_sp./1-109                                                
300393473|Notobryon_sp./1-109                                
300393475|Notobryon_wardi/1-109                                
300393481|Lomanotus_sp./1-109                                
300393483|Tritonia_nilsodhneri/1-109                                
300393485|Tritonia_pickensi/1-109                                
300393487|Tritonia_antarctica/1-109                                
300393489|Tritonia_festiva/1-109                                
300393491|Tritonia_sp./1-109                                
300393495|Marionia_arborescens/1-109                                
300393501|Marionia_distincta/1-109                                
300393509|Marionia_sp./1-109                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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300393453|Bornella_calcarata/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300393455|Pseudobornella_orienta/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300393457|Dendronotus_regius/1-109                                                                                                                                                                                                                                                                                                                                
300393459|Dendronotus_venustus/1-109                                                                                                                
300393463|Dendronotus_lacteus/1-109                                                                
300393465|Dendronotus_subramosus/1-109                                                
300393467|Scyllaea_pelagica/1-109                                                
300393469|Notobryon_sp./1-109                                                
300393471|Notobryon_sp./1-109                                                
300393473|Notobryon_sp./1-109                                                
300393475|Notobryon_wardi/1-109                                                
300393481|Lomanotus_sp./1-109                                                
300393483|Tritonia_nilsodhneri/1-109                                                
300393485|Tritonia_pickensi/1-109                                                
300393487|Tritonia_antarctica/1-109                                                
300393489|Tritonia_festiva/1-109                                                
300393491|Tritonia_sp./1-109                                                
300393495|Marionia_arborescens/1-109                                                
300393501|Marionia_distincta/1-109                                                
300393509|Marionia_sp./1-109                                                
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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300393511|Tritonia_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393513|Tritonia_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393519|Doto_coronata/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393521|Doto_koenneckeri/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393523|Doto_ussi/1-109              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393525|Doto_sp./1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393527|Doto_sp./1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393529|Doto_sp./1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393531|Doto_sp./1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393533|Doto_sp./1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393535|Doto_sp./1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393537|Doto_sp./1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393539|Pinufius_rebus/1-109         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393541|Dirona_albolineata/1-109     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393543|Leminda_millecra/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393545|Bonisa_nakaza/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393547|Janolus_barbarensis/1-109    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393549|Janolus_capensis/1-109       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393551|Janolus_longidentatus/1-109  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
300393553|Janolus_mirabilis/1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      109
consensus                              RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                   4
                                       3
                                       2
                                       1
300393511|Tritonia_sp./1-109           ..............................      109
300393513|Tritonia_sp./1-109           ..............................      109
300393519|Doto_coronata/1-109          ..............................      109
300393521|Doto_koenneckeri/1-109       ..............................      109
300393523|Doto_ussi/1-109              ..............................      109
300393525|Doto_sp./1-109               ..............................      109
300393527|Doto_sp./1-109               ..............................      109
300393529|Doto_sp./1-109               ..............................      109
300393531|Doto_sp./1-109               ..............................      109
300393533|Doto_sp./1-109               ..............................      109
300393535|Doto_sp./1-109               ..............................      109
300393537|Doto_sp./1-109               ..............................      109
300393539|Pinufius_rebus/1-109         ..............................      109
300393541|Dirona_albolineata/1-109     ..............................      109
300393543|Leminda_millecra/1-109       ..............................      109
300393545|Bonisa_nakaza/1-109          ..............................      109
300393547|Janolus_barbarensis/1-109    ..............................      109
300393549|Janolus_capensis/1-109       ..............................      109
300393551|Janolus_longidentatus/1-109  ..............................      109
300393553|Janolus_mirabilis/1-109      ..............................      109
consensus
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X non conserved
X similar
X $\geq$50% conserved
X $\geq$80% conserved

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logo                                                  4 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                 3
                                                      2                                                                                                                                                 2
                                                      1                                                                                                                                                 1
300393555|Janolus_sp./1-109                           ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393557|Janolus_sp./1-109                           ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393559|Janolus_sp./1-109                           ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393563|Favorinus_elenalexiaru/1-109                ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393565|Godiva_quadricolor/1-109                   ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393567|Phyllodesmium_horridum/1-109                ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
300393569|Sakuraeolis_enosimensi/1-109               ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
306974998|Selenops_debilis/1-109                     ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
306975002|Selenops_simius/1-109                      ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
306975016|Selenops_sp./1-109                         ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
306975022|Selenops_curazao/1-109                     ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
306975062|Selenops_sp./1-109                         ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
306975074|Selenops_banksi/1-109                      ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
306975078|Selenops_abyssus/1-109                     ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
306975084|Selenops_nigromaculatu/1-109               ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
306975086|Selenops_sp./1-109                         ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
306975098|Selenops_phaselus/1-109                    ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
306975102|Selenops_marcanoi/1-109                    ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
306975112|Selenops_sp./1-109                         ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
306975122|Selenops_sp./1-109                         ..........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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logo                                                  4                                 4
                                                      3                                 3
                                                      2                                 2
                                                      1                                 1
300393555|Janolus_sp./1-109                           ..................................    109
300393557|Janolus_sp./1-109                           ..................................    109
300393559|Janolus_sp./1-109                           ..................................    109
300393563|Favorinus_elenalexiaru/1-109                ..................................    109
300393565|Godiva_quadricolor/1-109                   ..................................    109
300393567|Phyllodesmium_horridum/1-109                ..................................    109
300393569|Sakuraeolis_enosimensi/1-109               ..................................    109
306974998|Selenops_debilis/1-109                     ..................................    109
306975002|Selenops_simius/1-109                      ..................................    109
306975016|Selenops_sp./1-109                         ..................................    109
306975022|Selenops_curazao/1-109                     ..................................    109
306975062|Selenops_sp./1-109                         ..................................    109
306975074|Selenops_banksi/1-109                      ..................................    109
306975078|Selenops_abyssus/1-109                     ..................................    109
306975084|Selenops_nigromaculatu/1-109               ..................................    109
306975086|Selenops_sp./1-109                         ..................................    109
306975098|Selenops_phaselus/1-109                    ..................................    109
306975102|Selenops_marcanoi/1-109                    ..................................    109
306975112|Selenops_sp./1-109                         ..................................    109
306975122|Selenops_sp./1-109                         ..................................    109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
306975134|Selenops_pensilis/1-109      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975146|Selenops_debilis/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975156|Selenops_geraldinae/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975180|Selenops_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975238|Selenops_debilis/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975246|Selenops_submaculosus/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975248|Selenops_melanurus/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975314|Selenops_aissus/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975368|Selenops_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975380|Selenops_candidus/1-109     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975402|Selenops_petrunkevitch/1-109 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975418|Selenops_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975434|Selenops_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975438|Anyphops_barnardi/1-109     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975440|Anyphops_tugelanus/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975442|Anyphops_stauntoni/1-109    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975446|Garcorops_madagascar/1-109  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975448|Damastes_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975470|Selenops_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
306975484|Selenops_sp./1-109          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                   RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

306975134|Selenops_pensilis/1-109      ..................................     109
306975146|Selenops_debilis/1-109       ..................................     109
306975156|Selenops_geraldinae/1-109    ..................................     109
306975180|Selenops_sp./1-109           ..................................     109
306975238|Selenops_debilis/1-109       ..................................     109
306975246|Selenops_submaculosus/1-109  ..................................     109
306975248|Selenops_melanurus/1-109     ..................................     109
306975314|Selenops_aissus/1-109        ..................................     109
306975368|Selenops_sp./1-109           ..................................     109
306975380|Selenops_candidus/1-109      ..................................     109
306975402|Selenops_petrunkevitch/1-109 ..................................     109
306975418|Selenops_sp./1-109           ..................................     109
306975434|Selenops_sp./1-109           ..................................     109
306975438|Anyphops_barnardi/1-109      ..................................     109
306975440|Anyphops_tugelanus/1-109     ..................................     109
306975442|Anyphops_stauntoni/1-109     ..................................     109
306975446|Garcorops_madagascar/1-109   ..................................     109
306975448|Damastes_sp./1-109           ..................................     109
306975470|Selenops_sp./1-109           ..................................     109
306975484|Selenops_sp./1-109           ..................................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
306975594|Selenopidae_gen./1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
306975602|Selenops_hebraicus/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
306975606|Selenops_bursarius/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
306975614|Selenops_occultus/1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
306975616|Anyphops_sp./1-109               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
306975620|Selenops_radiatus/1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
306975624|Acanthoctenus_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
306975626|Cupiennius_cf./1-109              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
306975638|Polybetes_pythagoricus/1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
306975642|Vulsor_sp./1-109                 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
307333682|Phacoides_pectinatus/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
308106296|Homalenotus_sp./1-109             .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
308106298|Marthana_sp./1-109                .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
308106300|Sabacon_cavicolens/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
308106302|Holoscotolemon_jaqueti/1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
308106304|Theromaster_brunnea/1-109         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
308106306|Trojanella_serbica/1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
308106308|Synthetonychia_sp./1-109           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
308106310|Fumontana_deprehendor/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
308106312|Larifuga_cf./1-109                .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
consensus                                                            RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

306975594|Selenopidae_gen./1-109          ..............................    109
306975602|Selenops_hebraicus/1-109          ..............................    109
306975606|Selenops_bursarius/1-109          ..............................    109
306975614|Selenops_occultus/1-109           ..............................    109
306975616|Anyphops_sp./1-109                ..............................    109
306975620|Selenops_radiatus/1-109           ..............................    109
306975624|Acanthoctenus_sp./1-109           ..............................    109
306975626|Cupiennius_cf./1-109              ..............................    109
306975638|Polybetes_pythagoricus/1-109      ..............................    109
306975642|Vulsor_sp./1-109                  ..............................    109
307333682|Phacoides_pectinatus/1-109        ..............................    109
308106296|Homalenotus_sp./1-109             ..............................    109
308106298|Marthana_sp./1-109                ..............................    109
308106300|Sabacon_cavicolens/1-109          ..............................    109
308106302|Holoscotolemon_jaqueti/1-109      ..............................    109
308106304|Theromaster_brunnea/1-109         ..............................    109
308106306|Trojanella_serbica/1-109           ..............................    109
308106308|Synthetonychia_sp./1-109           ..............................    109
308106310|Fumontana_deprehendor/1-109        ..............................    109
308106312|Larifuga_cf./1-109                ..............................    109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106314|Rostromontia_cf./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106316|Triaenobunus_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106318|Triaenobunus_cf./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106320|Scotolemon_lespesi/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106322|Scotolemon_sp./1-109                                                                                                                                                                                                                                                                                                                                
308106324|Conomma_oedipus/1-109                                                                                                                                                
308106326|Chilon_robustus/1-109                                                                                
308106328|Seuthes_inermis/1-109                                                
308106330|Trionyxellinae_sp./1-109                                
308106332|Pseudoepedanus_dolensi/1-109                
308106334|Gnidia_holmbergi/1-109                
308106336|Metalibitia_paraguayen/1-109                
308106338|Heterocranaus_sp./1-109                
308106340|Santinezia_serratotibi/1-109                
308106342|Stygnoplus_clavotibial/1-109                
308106344|Hoplobunus_sp./1-109                
308106346|Karos_cf./1-109                
308106348|Metabiantes_sp./1-109                
308106350|Metabiantes_sp./1-109                
308106352|Metabiantes_sp./1-109                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106314|Rostromontia_cf./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106316|Triaenobunus_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106318|Triaenobunus_cf./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106320|Scotolemon_lespesi/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106322|Scotolemon_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106324|Conomma_oedipus/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106326|Chilon_robustus/1-109                                                                                                                                                                                                                                                                                
308106328|Seuthes_inermis/1-109                                                                                                                                                                                                                                
308106330|Trionyxellinae_sp./1-109                                                                                                                                
308106332|Pseudoepedanus_dolensi/1-109                                                                                                
308106334|Gnidia_holmbergi/1-109                                                                                
308106336|Metalibitia_paraguayen/1-109                                                                                
308106338|Heterocranaus_sp./1-109                                                                                
308106340|Santinezia_serratotibi/1-109                                                                                
308106342|Stygnoplus_clavotibial/1-109                                                                                
308106344|Hoplobunus_sp./1-109                                                                                
308106346|Karos_cf./1-109                                                                                
308106348|Metabiantes_sp./1-109                                                                                
308106350|Metabiantes_sp./1-109                                                                                
308106352|Metabiantes_sp./1-109                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106354|Baculigerus_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106356|Minuella_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106358|Pellobunus_insularis/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106360|Samoidae_sp./1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
308106362|Stygnomma_sp./1-109                                                                                                                                
308106364|Stygnomma_sp./1-109                                                                                                                                
308106366|Fissiphallius_chicoi/1-109                                                                                                                                
308106368|Icaleptidae_sp./1-109                                                                                                                                
308106370|Pirassunungoleptes_cal/1-109                                                                                                                                
308106372|Zalmoxis_sp./1-109                                                                                                                                
158324341|Sympecma_paedisca/1-108                                                                                                                                
158324343|Macromia_eurynome/1-108                                                                                                                                
158324345|Phylloneura_westermann/1-108                                                                                                                                
158324347|Echo_modesta/1-108                                                                                                                                
158324349|Protosticta_sanguinost/1-108                                                                                                                                
158324351|Mortonagrion_binocella/1-108                                                                                                                                
158324353|Libellago_semiopaca/1-108                                                                                                                                
158324355|Copera_vittata/1-108                                                                                                                                
158324357|Somatochlora_flavomacu/1-108                                                                                                                                
158324365|Devadatta_podolestoide/1-108                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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308106354|Baculigerus_sp./1-109                                                                                                                                
308106356|Minuella_sp./1-109                                                                                                                                
308106358|Pellobunus_insularis/1-109                                                                                                                                
308106360|Samoidae_sp./1-109                                                                                                                                
308106362|Stygnomma_sp./1-109                                                                                                                                
308106364|Stygnomma_sp./1-109                                                                                                                                
308106366|Fissiphallius_chicoi/1-109                                                                                                                                
308106368|Icaleptidae_sp./1-109                                                                                                                                
308106370|Pirassunungoleptes_cal/1-109                                                                                                                                
308106372|Zalmoxis_sp./1-109                                                                                                                                
158324341|Sympecma_paedisca/1-108                                                                                                                                
158324343|Macromia_eurynome/1-108                                                                                                                                
158324345|Phylloneura_westermann/1-108                                                                                                                                
158324347|Echo_modesta/1-108                                                                                                                                
158324349|Protosticta_sanguinost/1-108                                                                                                                                
158324351|Mortonagrion_binocella/1-108                                                                                                                                
158324353|Libellago_semiopaca/1-108                                                                                                                                
158324355|Copera_vittata/1-108                                                                                                                                
158324357|Somatochlora_flavomacu/1-108                                                                                                                                
158324365|Devadatta_podolestoide/1-108                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158324367|Vestalis_beryllae/1-108          .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324369|Trithemis_aurora/1-108            .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324371|Lestoidea_conjuncta/1-108          .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324373|Chorismagrion_risi/1-108           .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324375|Isosticta_robustior/1-108           .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324377|Trineuragroin_percosta/1-108       .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324379|Caledargiolestes_unise/1-108       .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324381|Caledopteryx_maculata/1-108        .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324383|Philoganga_vetusta/1-108           .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324385|Mecistogaster_linearis/1-108       .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324387|Microstigma_anomalum/1-108         .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324389|Heteragrion_sp./1-108              .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324391|Sciotropis_cyclanthoru/1-108       .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324393|Philogenia_cassandra/1-108         .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324395|Teinopodagrion_venale/1-108        .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324397|Cora_cyane/1-108                   .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324399|Euthore_fasciata/1-108             .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324401|Palaemnema_melanostigm/1-108       .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324403|Pseudolestes_mirabilis/1-108       .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
158324405|Argia_nahuana/1-108               .....................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  108
consensus                                                       K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

158324367|Vestalis_beryllae/1-108          ..............................  108
158324369|Trithemis_aurora/1-108            ..............................  108
158324371|Lestoidea_conjuncta/1-108          ..............................  108
158324373|Chorismagrion_risi/1-108           ..............................  108
158324375|Isosticta_robustior/1-108           ..............................  108
158324377|Trineuragroin_percosta/1-108       ..............................  108
158324379|Caledargiolestes_unise/1-108       ..............................  108
158324381|Caledopteryx_maculata/1-108        ..............................  108
158324383|Philoganga_vetusta/1-108           ..............................  108
158324385|Mecistogaster_linearis/1-108       ..............................  108
158324387|Microstigma_anomalum/1-108         ..............................  108
158324389|Heteragrion_sp./1-108              ..............................  108
158324391|Sciotropis_cyclanthoru/1-108       ..............................  108
158324393|Philogenia_cassandra/1-108         ..............................  108
158324395|Teinopodagrion_venale/1-108        ..............................  108
158324397|Cora_cyane/1-108                   ..............................  108
158324399|Euthore_fasciata/1-108             ..............................  108
158324401|Palaemnema_melanostigm/1-108       ..............................  108
158324403|Pseudolestes_mirabilis/1-108       ..............................  108
158324405|Argia_nahuana/1-108                ..............................  108
consensus
```

X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                   4 K STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                       3                                                                                                                                 3
                                                       2                                                                                                                                 2
                                                       1 ^^^
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
107860012|Costasiella_kuroshimae/1-107   .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
107860016|Oxynoe_antillarum/1-107          .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
110555659|Papuadytes_perfectus/1-107      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
110555661|Papuadytes_aubei/1-107          .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
110555666|Papuadytes_bimaculatus/1-107    .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
110555668|Papuadytes_sp./1-107            .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
110555670|Papuadytes_sp./1-107            .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
110555674|Papuadytes_sp./1-107            .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
110555676|Papuadytes_sp./1-107            .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
110555678|Papuadytes_shizong/1-107        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
110555680|Papuadytes_sp./1-107            .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
110555682|Papuadytes_sp./1-107            .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
110555686|Papuadytes_punctipenni/1-107    .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
110555688|Papuadytes_rasilis/1-107        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
296124973|Kaestneriella_sp./1-110          .......................XX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
296125019|Tapinella_sp./1-110             .......................XX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
110555690|Papuadytes_glyptus/1-107        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
110555692|Papuadytes_commatifer/1-107     .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
110555694|Papuadytes_ferrugineus/1-107    .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
110555696|Papuadytes_aff./1-107           .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.   107
consensus                                                        K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK

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107860012|Costasiella_kuroshimae/1-107   ..............................     107
107860016|Oxynoe_antillarum/1-107          ..............................     107
110555659|Papuadytes_perfectus/1-107      ..............................     107
110555661|Papuadytes_aubei/1-107          ..............................     107
110555666|Papuadytes_bimaculatus/1-107    ..............................     107
110555668|Papuadytes_sp./1-107            ..............................     107
110555670|Papuadytes_sp./1-107            ..............................     107
110555674|Papuadytes_sp./1-107            ..............................     107
110555676|Papuadytes_sp./1-107            ..............................     107
110555678|Papuadytes_shizong/1-107        ..............................     107
110555680|Papuadytes_sp./1-107            ..............................     107
110555682|Papuadytes_sp./1-107            ..............................     107
110555686|Papuadytes_punctipenni/1-107    ..............................     107
110555688|Papuadytes_rasilis/1-107        ..............................     107
296124973|Kaestneriella_sp./1-110         V.............................     110
296125019|Tapinella_sp./1-110             V.............................     110
110555690|Papuadytes_glyptus/1-107        ..............................     107
110555692|Papuadytes_commatifer/1-107     ..............................     107
110555694|Papuadytes_ferrugineus/1-107    ..............................     107
110555696|Papuadytes_aff./1-107           ..............................     107
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 K STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK 4
                                                      3                                                                                                                                 3
                                                      2                                                                                                                                 2
                                                      1                                                                                                                                 1
110555698|Papuadytes_aff./1-107                       .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555700|Papuadytes_aff./1-107                       .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555702|Papuadytes_sp./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555704|Papuadytes_sp./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555706|Papuadytes_sp./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555712|Papuadytes_sp./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555714|Papuadytes_sp./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555718|Papuadytes_sp./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555720|Papuadytes_sp./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555722|Papuadytes_brownei/1-107                   .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555726|Papuadytes_sp./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555728|Papuadytes_sp./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555730|Papuadytes_sp./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555734|Papuadytes_sp./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555736|Papuadytes_interruptus/1-107               .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555738|Papuadytes_sp./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555740|Papuadytes_munaso/1-107                    .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555744|Papuadytes_sp./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555746|Papuadytes_sp./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
110555748|Papuadytes_sp./1-107                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
consensus                                             K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK
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logo                                                  4                                 4
                                                      3                                 3
                                                      2                                 2
                                                      1                                 1
110555698|Papuadytes_aff./1-107                       ..................................     107
110555700|Papuadytes_aff./1-107                       ..................................     107
110555702|Papuadytes_sp./1-107                        ..................................     107
110555704|Papuadytes_sp./1-107                        ..................................     107
110555706|Papuadytes_sp./1-107                        ..................................     107
110555712|Papuadytes_sp./1-107                        ..................................     107
110555714|Papuadytes_sp./1-107                        ..................................     107
110555718|Papuadytes_sp./1-107                        ..................................     107
110555720|Papuadytes_sp./1-107                        ..................................     107
110555722|Papuadytes_brownei/1-107                   ..................................     107
110555726|Papuadytes_sp./1-107                        ..................................     107
110555728|Papuadytes_sp./1-107                        ..................................     107
110555730|Papuadytes_sp./1-107                        ..................................     107
110555734|Papuadytes_sp./1-107                        ..................................     107
110555736|Papuadytes_interruptus/1-107               ..................................     107
110555738|Papuadytes_sp./1-107                        ..................................     107
110555740|Papuadytes_munaso/1-107                    ..................................     107
110555744|Papuadytes_sp./1-107                        ..................................     107
110555746|Papuadytes_sp./1-107                        ..................................     107
110555748|Papuadytes_sp./1-107                        ..................................     107
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                 4 K STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK 4
                                                     3                                                                                                                                 3
                                                     2                                                                                                                                 2
                                                     1                                                                                                                                 1
110555752|Papuadytes_aff./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555758|Papuadytes_atowaso/1-107                  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555760|Papuadytes_aff./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555764|Papuadytes_astrophallu/1-107              .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555766|Papuadytes_ater/1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555770|Papuadytes_sp./1-107                       .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555772|Papuadytes_australiae/1-107               .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555774|Papuadytes_australis/1-107                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555776|Papuadytes_abditus/1-107                  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
6686555|Asellus_aquaticus/1-136                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKK     117
58199420|Gobiocichla_ethelwynnae/1-110             ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKK     110
4883756|Triops_australiensis/1-109                 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKK     109
4883763|Atrax_sp./1-109                             .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKK     109
110555778|Papuadytes_miriae/1-107                   .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555780|Papuadytes_ullrichi/1-107                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555788|Papuadytes_boulevardi/1-107               .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555790|Papuadytes_sp./1-107                       .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555792|Papuadytes_sp./1-107                       .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555794|Papuadytes_sp./1-107                       .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555802|Papuadytes_aff./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
consensus                                            K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK
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logo                                                 4                                                                 4
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110555752|Papuadytes_aff./1-107                      ..............................      107
110555758|Papuadytes_atowaso/1-107                  ..............................      107
110555760|Papuadytes_aff./1-107                      ..............................      107
110555764|Papuadytes_astrophallu/1-107              ..............................      107
110555766|Papuadytes_ater/1-107                      ..............................      107
110555770|Papuadytes_sp./1-107                       ..............................      107
110555772|Papuadytes_australiae/1-107               ..............................      107
110555774|Papuadytes_australis/1-107                 ..............................      107
110555776|Papuadytes_abditus/1-107                  ..............................      107
6686555|Asellus_aquaticus/1-136                     SYYHAKGLQLARRIRGERA............      136
58199420|Gobiocichla_ethelwynnae/1-110              ..............................      110
4883756|Triops_australiensis/1-109                  ..............................      109
4883763|Atrax_sp./1-109                             ..............................      109
110555778|Papuadytes_miriae/1-107                   ..............................      107
110555780|Papuadytes_ullrichi/1-107                 ..............................      107
110555788|Papuadytes_boulevardi/1-107               ..............................      107
110555790|Papuadytes_sp./1-107                       ..............................      107
110555792|Papuadytes_sp./1-107                       ..............................      107
110555794|Papuadytes_sp./1-107                       ..............................      107
110555802|Papuadytes_aff./1-107                      ..............................      107
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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110555808|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555810|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555812|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555814|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555816|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555818|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555820|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555822|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555824|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555826|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555828|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555830|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555832|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555834|Papuadytes_aff./1-107                     .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555836|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555838|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
110555842|Papuadytes_sp./1-107                      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
112294045|Elysia_sp./1-107                          .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
196175125|Neolieftinckana_fuscat/1-107              .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
196481248|Radima_sp./1-107                          .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
consensus                                           K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK
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logo                                                3┤
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110555808|Papuadytes_sp./1-107                      ..................................     107
110555810|Papuadytes_sp./1-107                      ..................................     107
110555812|Papuadytes_sp./1-107                      ..................................     107
110555814|Papuadytes_sp./1-107                      ..................................     107
110555816|Papuadytes_sp./1-107                      ..................................     107
110555818|Papuadytes_sp./1-107                      ..................................     107
110555820|Papuadytes_sp./1-107                      ..................................     107
110555822|Papuadytes_sp./1-107                      ..................................     107
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110555826|Papuadytes_sp./1-107                      ..................................     107
110555828|Papuadytes_sp./1-107                      ..................................     107
110555830|Papuadytes_sp./1-107                      ..................................     107
110555832|Papuadytes_sp./1-107                      ..................................     107
110555834|Papuadytes_aff./1-107                     ..................................     107
110555836|Papuadytes_sp./1-107                      ..................................     107
110555838|Papuadytes_sp./1-107                      ..................................     107
110555842|Papuadytes_sp./1-107                      ..................................     107
112294045|Elysia_sp./1-107                          ..................................     107
196175125|Neolieftinckana_fuscat/1-107              ..................................     107
196481248|Radima_sp./1-107                          ..................................     107
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                   4 K STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK 4
                                                       3                                                                                                                                   3
                                                       2                                                                                                                                   2
                                                       1                                                                                                                                   1

225183268|Rhantus_suturalis/1-107                      ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183469|Rhantus_poellerbauerae/1-107                 ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183471|Rhantus_monteithi/1-107                      ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183473|Rhantus_supranubicus/1-107                   ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183479|Rhantus_pederzanii/1-107                     ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183483|Rhantus_alutaceus/1-107                      ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
162424396|Dienerella_intermedia/1-109                  ..........................R..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKH    109
225183485|Rhantus_novaecaledonia/1-107                 ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183499|Rhantus_cheesmanae/1-107                     ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183505|Rhantus_pseudopacificu/1-107                 ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183511|Rhantus_exsoletus/1-107                      ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183513|Rhantus_latitans/1-107                       ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183515|Rhantus_consputus/1-107                      ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183517|Rhantus_bistriatus/1-107                     ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183523|Colymbetes_paykulli/1-107                    ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183525|Dytiscus_dimidiatus/1-107                    ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183527|Rhantus_wallisi/1-107                        ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183529|Rhantus_sp./1-107                            ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183531|Rhantus_suturellus/1-107                     ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
225183533|Rhantus_sikkimensis/1-107                    ..........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
consensus                                              K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK
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225183268|Rhantus_suturalis/1-107                      ..................................     107
225183469|Rhantus_poellerbauerae/1-107                 ..................................     107
225183471|Rhantus_monteithi/1-107                      ..................................     107
225183473|Rhantus_supranubicus/1-107                   ..................................     107
225183479|Rhantus_pederzanii/1-107                     ..................................     107
225183483|Rhantus_alutaceus/1-107                      ..................................     107
162424396|Dienerella_intermedia/1-109                  ..................................     109
225183485|Rhantus_novaecaledonia/1-107                 ..................................     107
225183499|Rhantus_cheesmanae/1-107                     ..................................     107
225183505|Rhantus_pseudopacificu/1-107                 ..................................     107
225183511|Rhantus_exsoletus/1-107                      ..................................     107
225183513|Rhantus_latitans/1-107                       ..................................     107
225183515|Rhantus_consputus/1-107                      ..................................     107
225183517|Rhantus_bistriatus/1-107                     ..................................     107
225183523|Colymbetes_paykulli/1-107                    ..................................     107
225183525|Dytiscus_dimidiatus/1-107                    ..................................     107
225183527|Rhantus_wallisi/1-107                        ..................................     107
225183529|Rhantus_sp./1-107                            ..................................     107
225183531|Rhantus_suturellus/1-107                     ..................................     107
225183533|Rhantus_sikkimensis/1-107                    ..................................     107
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                 4 K STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK 4
                                                     3                                                                                                                                 3
                                                     2                                                                                                                                 2
                                                     1                                                                                                                                 1
225183537|Carabdytes_upin/1-107                      ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
225183541|Rhantus_dani/1-107                         ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
225183543|Rhantus_annectens/1-107                   ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
225183547|Rhantus_sp./1-107                          ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
225183553|Rhantus_bacchusi/1-107                    ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
225183557|Rhantus_vitiensis/1-107                   ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
225183559|Rhantus_kini/1-107                         ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
225183561|Rhantus_bula/1-107                         ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
257783539|Afropomus_balanoideus/1-107               ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
257783569|Pomacea_dolioides/1-107                   ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
257783577|Pomacea_canaliculata/1-107                ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
301341475|Pollicipes_elegans/1-107                  ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
301341477|Pollicipes_sp./1-107                      ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  107
53828085|Liorhina_sp./1-106                         ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  106
71726157|Macrobrachium_sp./1-106                    ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  106
94014374|Liopterus_atriceps/1-106                   ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  106
94014379|Liopterus_haemorrhoidal/1-106              ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  106
94014383|Aglymbus_cf./1-106                         ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  106
94014388|Aglymbus_elongatus/1-106                   ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  106
94014393|Copelatus_sp./1-106                        ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  106
consensus                                            K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA*
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logo                                                 4                                 4
                                                     3                                 3
                                                     2                                 2
                                                     1                                 1
225183537|Carabdytes_upin/1-107                      ..............................    107
225183541|Rhantus_dani/1-107                         ..............................    107
225183543|Rhantus_annectens/1-107                   ..............................    107
225183547|Rhantus_sp./1-107                          ..............................    107
225183553|Rhantus_bacchusi/1-107                    ..............................    107
225183557|Rhantus_vitiensis/1-107                   ..............................    107
225183559|Rhantus_kini/1-107                         ..............................    107
225183561|Rhantus_bula/1-107                         ..............................    107
257783539|Afropomus_balanoideus/1-107               ..............................    107
257783569|Pomacea_dolioides/1-107                   ..............................    107
257783577|Pomacea_canaliculata/1-107                ..............................    107
301341475|Pollicipes_elegans/1-107                  ..............................    107
301341477|Pollicipes_sp./1-107                      ..............................    107
53828085|Liorhina_sp./1-106                         ..............................    106
71726157|Macrobrachium_sp./1-106                    ..............................    106
94014374|Liopterus_atriceps/1-106                   ..............................    106
94014379|Liopterus_haemorrhoidal/1-106              ..............................    106
94014383|Aglymbus_cf./1-106                         ..............................    106
94014388|Aglymbus_elongatus/1-106                   ..............................    106
94014393|Copelatus_sp./1-106                        ..............................    106
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                  4 3 2 1
                                                      K STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA
                                                      R                                                                                                                  4 3 2 1

82619013|Acilius_sylvanus/1-125                       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKC   117
94014398|Copelatus_sp./1-106                          ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
94014403|Copelatus_sp./1-106                          ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
94014408|Copelatus_sp./1-106                          ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
94014412|Copelatus_sp./1-106                          ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
94014417|Copelatus_sp./1-106                          ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
94014422|Copelatus_sp./1-106                          ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
94014427|Copelatus_sp./1-106                          ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
94014433|Copelatus_sp./1-106                          ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
94014437|Copelatus_sp./1-106                          ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
94014442|Copelatus_sp./1-106                          ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
94014446|Copelatus_sp./1-106                          ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
94014451|Copelatus_sp./1-106                          ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
94014455|Copelatus_sp./1-106                          ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
110555756|Papuadytes_sp./1-106                        ........................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
86372422|Aspidosiphon_elegans/1-107                   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
91719094|Stylopallene_longicauda/1-107               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
94014603|Copelatus_sp./1-107                          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
94014968|Copelatus_sp./1-107                          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
110555257|Salticus_scenicus/1-107                    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
consensus                                             K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA
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logo                                                  4 3 2 1
                                                      4 3 2 1

82619013|Acilius_sylvanus/1-125                       VTIMPKDI.......................   125
94014398|Copelatus_sp./1-106                          ...............................   106
94014403|Copelatus_sp./1-106                          ...............................   106
94014408|Copelatus_sp./1-106                          ...............................   106
94014412|Copelatus_sp./1-106                          ...............................   106
94014417|Copelatus_sp./1-106                          ...............................   106
94014422|Copelatus_sp./1-106                          ...............................   106
94014427|Copelatus_sp./1-106                          ...............................   106
94014433|Copelatus_sp./1-106                          ...............................   106
94014437|Copelatus_sp./1-106                          ...............................   106
94014442|Copelatus_sp./1-106                          ...............................   106
94014446|Copelatus_sp./1-106                          ...............................   106
94014451|Copelatus_sp./1-106                          ...............................   106
94014455|Copelatus_sp./1-106                          ...............................   106
110555756|Papuadytes_sp./1-106                        ...............................   106
86372422|Aspidosiphon_elegans/1-107                   ...............................   107
91719094|Stylopallene_longicauda/1-107                ...............................   107
94014603|Copelatus_sp./1-107                          ...............................   107
94014968|Copelatus_sp./1-107                          ...............................   107
110555257|Salticus_scenicus/1-107                     ...............................   107
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157783425|Trichadenotecnum_quaes/1-107   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158345858|Pheidole_adrianoi/1-107          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158345860|Pheidole_allarmata/1-107         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158345870|Pheidole_astur/1-107             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158345872|Pheidole_barbata/1-107           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158345874|Pheidole_bicarinata/1-107         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158345876|Pheidole_biconstricta/1-107      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158345878|Pheidole_bilimeki/1-107          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158345882|Pheidole_boruca/1-107            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158345886|Pheidole_californica/1-107       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158345890|Pheidole_carrolli/1-107          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158345892|Pheidole_casta/1-107             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
53828077|Clastoptera_obtusa/1-108          .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   108
53828093|Clastoptera_testacea/1-108        .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   108
194173305|Rakaia_n./1-109                  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHARR   109
71726187|Penaeus_semisulcatus/1-108        .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   108
110555245|Goleba_lyra/1-108                .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   108
156958862|Tribolium_brevicornis/1-108      .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   108
196175151|Pterodictya_reticulari/1-108    .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   108
300248377|Aphrophora_saratogensi/1-108    .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   108
consensus                                                       RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA

logo

157783425|Trichadenotecnum_quaes/1-107   ..................................   107
158345858|Pheidole_adrianoi/1-107          ..................................   107
158345860|Pheidole_allarmata/1-107         ..................................   107
158345870|Pheidole_astur/1-107             ..................................   107
158345872|Pheidole_barbata/1-107           ..................................   107
158345874|Pheidole_bicarinata/1-107         ..................................   107
158345876|Pheidole_biconstricta/1-107      ..................................   107
158345878|Pheidole_bilimeki/1-107          ..................................   107
158345882|Pheidole_boruca/1-107            ..................................   107
158345886|Pheidole_californica/1-107       ..................................   107
158345890|Pheidole_carrolli/1-107          ..................................   107
158345892|Pheidole_casta/1-107             ..................................   107
53828077|Clastoptera_obtusa/1-108          ..................................   108
53828093|Clastoptera_testacea/1-108        ..................................   108
194173305|Rakaia_n./1-109                  ..................................   109
71726187|Penaeus_semisulcatus/1-108        ..................................   108
110555245|Goleba_lyra/1-108                ..................................   108
156958862|Tribolium_brevicornis/1-108      ..................................   108
196175151|Pterodictya_reticulari/1-108    ..................................   108
300248377|Aphrophora_saratogensi/1-108    ..................................   108
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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158345898|Pheidole_cerebrosior/1-107          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345900|Pheidole_ceres/1-107                  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345902|Pheidole_clementensis/1-107          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345904|Pheidole_clydei/1-107                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345910|Pheidole_pilifera/1-107               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345914|Pheidole_comata/1-107                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345916|Pheidole_constipata/1-107             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345918|Pheidole_cramptoni/1-107              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345920|Pheidole_crassicornis/1-107           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345922|Pheidole_davisi/1-107                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345926|Pheidole_desertorum/1-107             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345930|Pheidole_diversipilosa/1-107          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345934|Pheidole_dugasi/1-107                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345936|Pheidole_erratilis/1-107               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345942|Pheidole_fissiceps/1-107               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345944|Pheidole_flavens/1-107                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345950|Pheidole_gatesi/1-107                 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345952|Pheidole_gilvescens/1-107              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
188037200|Saltella_sphondylii/1-113             ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  113
238683782|Chlamys_islandica/1-111               ..................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  111
consensus                                        RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA
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consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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53828135|Ophiderma_definita/1-109          .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  109
109134678|Ophiderma_definata/1-109          .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  109
240155931|Haemomaster_venezuelae/1-109     .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  109
158345954|Pheidole_granulata/1-107          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345956|Pheidole_harlequina/1-107         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345958|Pheidole_hoplitica/1-107           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345960|Pheidole_hyatti/1-107              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345962|Pheidole_indagatrix/1-107          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
150247845|Stagmatoptera_sp./1-116            ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKX  113
161376282|Isogenoides_olivaceus/1-125       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKX  117
71726185|Panulirus_regius/1-111             .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKX  110
70609148|Zeus_faber/1-110                    .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKX  110
90185018|Ambystoma_tigrinum/1-109            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKX  109
255934534|Tarachina_sp./1-109                .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKX  109
262178814|Selenops_sp./1-109                 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKX  109
281323554|Stylocellus_sp./1-109              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKX  109
158345964|Pheidole_indistincta/1-107         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345970|Pheidole_juniperae/1-107           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345974|Pheidole_laticornis/1-107          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345976|Pheidole_littoralis/1-107          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
consensus                                                            RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA

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53828135|Ophiderma_definita/1-109          ..............................  109
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158345976|Pheidole_littoralis/1-107         ..............................  107
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158345978|Pheidole_macrops/1-107          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345980|Pheidole_mamore/1-107            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345982|Pheidole_megacephala/1-107       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345984|Pheidole_metallescens/1-107     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345986|Pheidole_micula/1-107           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345988|Pheidole_militicida/1-107       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345990|Pheidole_minutula/1-107         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345992|Pheidole_moerens/1-107          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158345994|Pheidole_morrisi/1-107          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346006|Pheidole_obtusospinosa/1-107   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346012|Pheidole_pallidula/1-107        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346014|Pheidole_pelor/1-107            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346018|Pheidole_pilifera/1-107          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346020|Pheidole_plagiaria/1-107         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346022|Pheidole_polymorpha/1-107       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346026|Pheidole_portalensis/1-107      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346028|Pheidole_prostrata/1-107         .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346032|Pheidole_psammophila/1-107      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346034|Pheidole_quadrensis/1-107        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346036|Pheidole_quadricuspis/1-107     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
consensus                                                      RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA

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158345978|Pheidole_macrops/1-107          ..................................  107
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158346020|Pheidole_plagiaria/1-107       ..................................  107
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158346032|Pheidole_psammophila/1-107     ..................................  107
158346034|Pheidole_quadrensis/1-107      ..................................  107
158346036|Pheidole_quadricuspis/1-107    ..................................  107
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                

158346040|Pheidole_rhea/1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346042|Pheidole_rhinoceros/1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346044|Pheidole_soritis/1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346048|Pheidole_sagittaria/1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346050|Pheidole_sciara/1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346052|Pheidole_sciophila/1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346058|Pheidole_sensitiva/1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346060|Pheidole_sexspinosa/1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346064|Pheidole_sitiens/1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
30140298|Hubrechtella_dubia/1-110 ..... ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKQ..... 110
158346070|Pheidole_sp./1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346074|Pheidole_sp./1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346076|Pheidole_sp./1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346078|Pheidole_sp./1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346082|Pheidole_sp./1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346084|Pheidole_sp./1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346086|Pheidole_sp./1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346090|Pheidole_sp./1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346092|Pheidole_sp./1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
158346094|Pheidole_sp./1-107 ..... RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..... 107
consensus                                RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA

logo

158346040|Pheidole_rhea/1-107 ..... 107
158346042|Pheidole_rhinoceros/1-107 ..... 107
158346044|Pheidole_soritis/1-107 ..... 107
158346048|Pheidole_sagittaria/1-107 ..... 107
158346050|Pheidole_sciara/1-107 ..... 107
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158346060|Pheidole_sexspinosa/1-107 ..... 107
158346064|Pheidole_sitiens/1-107 ..... 107
30140298|Hubrechtella_dubia/1-110 ..... 110
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158346074|Pheidole_sp./1-107 ..... 107
158346076|Pheidole_sp./1-107 ..... 107
158346078|Pheidole_sp./1-107 ..... 107
158346082|Pheidole_sp./1-107 ..... 107
158346084|Pheidole_sp./1-107 ..... 107
158346086|Pheidole_sp./1-107 ..... 107
158346090|Pheidole_sp./1-107 ..... 107
158346092|Pheidole_sp./1-107 ..... 107
158346094|Pheidole_sp./1-107 ..... 107
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158346098|Pheidole_sp./1-107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158346100|Pheidole_sp./1-107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158346102|Pheidole_sp./1-107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158346104|Pheidole_sp./1-107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158346106|Pheidole_sp./1-107                                                                                                                                
158346108|Pheidole_sp./1-107                                                                                                                                
158346110|Pheidole_spadonia/1-107                                                                                                                                
158346112|Pheidole_striaticeps/1-107                                                                                                                                
158346114|Pheidole_subarmata/1-107                                                                                                                                
158346116|Pheidole_tandjongensis/1-107                                                                                                                                
158346122|Pheidole_titanis/1-107                                                                                                                                
158346128|Pheidole_tysoni/1-107                                                                                                                                
158346130|Pheidole_vallicola/1-107                                                                                                                                
158346132|Pheidole_variabilis/1-107                                                                                                                                
158346134|Pheidole_vinelandica/1-107                                                                                                                                
158346136|Pheidole_violacea/1-107                                                                                                                                
158346138|Pheidole_vistana/1-107                                                                                                                                
158346140|Pheidole_xanthogaster/1-107                                                                                                                                
158346144|Pheidole_yaqui/1-107                                                                                                                                
196481228|Radima_sp./1-116                                                                                                                                
consensus
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logo
158346098|Pheidole_sp./1-107
158346100|Pheidole_sp./1-107
158346102|Pheidole_sp./1-107
158346104|Pheidole_sp./1-107
158346106|Pheidole_sp./1-107
158346108|Pheidole_sp./1-107
158346110|Pheidole_spadonia/1-107
158346112|Pheidole_striaticeps/1-107
158346114|Pheidole_subarmata/1-107
158346116|Pheidole_tandjongensis/1-107
158346122|Pheidole_titanis/1-107
158346128|Pheidole_tysoni/1-107
158346130|Pheidole_vallicola/1-107
158346132|Pheidole_variabilis/1-107
158346134|Pheidole_vinelandica/1-107
158346136|Pheidole_violacea/1-107
158346138|Pheidole_vistana/1-107
158346140|Pheidole_xanthogaster/1-107
158346144|Pheidole_yaqui/1-107
196481228|Radima_sp./1-116
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA 4
                                                      3                                                                                                                                                 3
                                                      2                                                                                                                                                 2
                                                      1                                                                                                                                                 1
158346146|Aphaenogaster_texana/1-107                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346158|Messor_pergandei/1-107                      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346160|Ocymyrmex_picardi/1-107                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346164|Atta_sp./1-107                              ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346168|Trachymyrmex_jamaicens/1-107                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
158346176|Tranopelta_subterranea/1-107                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
188037218|Sepsis_orthocnemis/1-107                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
240155912|Trichomycterus_areolat/1-107                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
240155921|Megalocentor_echthrus/1-107                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
240155923|Parastegophilus_sp./1-107                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
259130679|Hydaticus_aruspex/1-107                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
259130681|Prodaticus_bihamatus/1-107                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
259130691|Hydaticus_continentali/1-107                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
259130697|Prodaticus_dorsiger/1-107                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
259130707|Prodaticus_grammicus/1-107                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
259130725|Prodaticus_parallelus/1-107                 ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
259130731|Prodaticus_rimosus/1-107                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
259130737|Hydaticus_seminiger/1-107                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
259130751|Prodaticus_wattsi/1-107                    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
259130753|Prodaticus_xanthomelas/1-107               ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
consensus                                             RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA
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logo                                                  4                                 4
                                                      3                                 3
                                                      2                                 2
                                                      1                                 1
158346146|Aphaenogaster_texana/1-107                  ..............................    107
158346158|Messor_pergandei/1-107                      ..............................    107
158346160|Ocymyrmex_picardi/1-107                    ..............................    107
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158346168|Trachymyrmex_jamaicens/1-107                ..............................    107
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188037218|Sepsis_orthocnemis/1-107                   ..............................    107
240155912|Trichomycterus_areolat/1-107                ..............................    107
240155921|Megalocentor_echthrus/1-107                 ..............................    107
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259130691|Hydaticus_continentali/1-107                ..............................    107
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259130731|Prodaticus_rimosus/1-107                   ..............................    107
259130737|Hydaticus_seminiger/1-107                  ..............................    107
259130751|Prodaticus_wattsi/1-107                    ..............................    107
259130753|Prodaticus_xanthomelas/1-107               ..............................    107
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
259130757|Prodaticus_pictus/1-107          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
262068507|Australolinyphia_remot/1-107       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
262068547|Stemonyphantes_lineatu/1-107       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
110555806|Papuadytes_sp./1-106               .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
158324233|Hagenius_sp./1-106                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
158324309|Rhipidolestes_aculeata/1-106       .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321667|Copelatus_sp./1-106                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321669|Copelatus_sp./1-106                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321671|Copelatus_sp./1-106                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321673|Copelatus_nr./1-106                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321675|Copelatus_nr./1-106                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321677|Copelatus_nr./1-106                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321679|Copelatus_sp./1-106                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
297040784|Callobius_sp./1-124                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAXR   117
73761854|Echmepteryx_hageni/1-110            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAXR   109
40796005|Owenia_fusiformis/1-109              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAXR   109
55741135|Cyphophthalmus_martensi/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAXR   109
255934730|Phyllothelys_decipiens/1-109        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAXR   109
170321681|Copelatus_nr./1-106                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321683|Copelatus_sp./1-106                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
consensus                                     K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA

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259130757|Prodaticus_pictus/1-107          ..............................   107
262068507|Australolinyphia_remot/1-107     ..............................   107
262068547|Stemonyphantes_lineatu/1-107     ..............................   107
110555806|Papuadytes_sp./1-106             ..............................   106
158324233|Hagenius_sp./1-106               ..............................   106
158324309|Rhipidolestes_aculeata/1-106     ..............................   106
170321667|Copelatus_sp./1-106               ..............................   106
170321669|Copelatus_sp./1-106               ..............................   106
170321671|Copelatus_sp./1-106               ..............................   106
170321673|Copelatus_nr./1-106               ..............................   106
170321675|Copelatus_nr./1-106               ..............................   106
170321677|Copelatus_nr./1-106               ..............................   106
170321679|Copelatus_sp./1-106               ..............................   106
297040784|Callobius_sp./1-124              VTIMPKD.......................   124
73761854|Echmepteryx_hageni/1-110          V.............................   110
40796005|Owenia_fusiformis/1-109            ..............................   109
55741135|Cyphophthalmus_martensi/1-109      ..............................   109
255934730|Phyllothelys_decipiens/1-109      ..............................   109
170321681|Copelatus_nr./1-106               ..............................   106
170321683|Copelatus_sp./1-106               ..............................   106
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
170321685|Copelatus_caelatipenni/1-106   .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321687|Copelatus_nr./1-106             .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321689|Aglymbus_sp./1-106              .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321691|Copelatus_sp./1-106             .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321693|Copelatus_concolorans/1-106     .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321695|Copelatus_sp./1-106             .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321697|Copelatus_nr./1-106             .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321699|Copelatus_nr./1-106             .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321701|Aglymbus_sp./1-106              .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321703|Copelatus_abonnenci/1-106       .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321707|Copelatus_sp./1-106             .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321709|Copelatus_distinctus/1-106      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321711|Aglymbus_bimaculatus/1-106      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321713|Copelatus_sp./1-106             .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321717|Copelatus_sp./1-106             .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321721|Aglymbus_bromeliarum/1-106      .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321723|Copelatus_sp./1-106             .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321729|Agaporomorphus_knischi/1-106    .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321731|Copelatus_sp./1-106             .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
170321735|Copelatus_sp./1-106             .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   106
consensus                                                        K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA

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170321685|Copelatus_caelatipenni/1-106   ..............................   106
170321687|Copelatus_nr./1-106             ..............................   106
170321689|Aglymbus_sp./1-106              ..............................   106
170321691|Copelatus_sp./1-106             ..............................   106
170321693|Copelatus_concolorans/1-106     ..............................   106
170321695|Copelatus_sp./1-106             ..............................   106
170321697|Copelatus_nr./1-106             ..............................   106
170321699|Copelatus_nr./1-106             ..............................   106
170321701|Aglymbus_sp./1-106              ..............................   106
170321703|Copelatus_abonnenci/1-106       ..............................   106
170321707|Copelatus_sp./1-106             ..............................   106
170321709|Copelatus_distinctus/1-106      ..............................   106
170321711|Aglymbus_bimaculatus/1-106      ..............................   106
170321713|Copelatus_sp./1-106             ..............................   106
170321717|Copelatus_sp./1-106             ..............................   106
170321721|Aglymbus_bromeliarum/1-106      ..............................   106
170321723|Copelatus_sp./1-106             ..............................   106
170321729|Agaporomorphus_knischi/1-106    ..............................   106
170321731|Copelatus_sp./1-106             ..............................   106
170321735|Copelatus_sp./1-106             ..............................   106
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                 4 K STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA   4
                                                     3                                                                                                                                   3
                                                     2                                                                                                                                   2
                                                     1                                                                                                                                   1
170321737|Copelatus_sp./1-106                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     106
170321739|Copelatus_sp./1-106                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     106
170321741|Copelatus_sp./1-106                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     106
170321745|Copelatus_sp./1-106                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     106
170321753|Copelatus_sp./1-106                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     106
170321755|Copelatus_sp./1-106                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     106
170321757|Copelatus_sp./1-106                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     106
158327376|Orchestia_stephenseni/1-123               ................AXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAXR     116
170321759|Copelatus_nr./1-106                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     106
170321761|Copelatus_nr./1-106                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     106
170321765|Copelatus_sp./1-106                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     106
158324407|Perilestes_kahli/1-105                     .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...     105
110555663|Papuadytes_perfectus/1-104                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....     104
224814404|Acrophylla_wuelfingi/1-104                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....     104
224814420|Baculofractum_insigne/1-104                .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....     104
224814424|Canachus_alligator/1-104                   .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....     104
224814442|Diapheromera_femorata/1-104                .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....     104
224814468|Spinonemia_chilensis/1-104                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....     104
224814476|Acrophylla_thoon/1-104                     .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....     104
224814478|Anchiale_briareus/1-104                    .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....     104
consensus                                            K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI**

logo                                                 4                                   4
                                                     3                                   3
                                                     2                                   2
                                                     1                                   1
170321737|Copelatus_sp./1-106                        ..............................      106
170321739|Copelatus_sp./1-106                        ..............................      106
170321741|Copelatus_sp./1-106                        ..............................      106
170321745|Copelatus_sp./1-106                        ..............................      106
170321753|Copelatus_sp./1-106                        ..............................      106
170321755|Copelatus_sp./1-106                        ..............................      106
170321757|Copelatus_sp./1-106                        ..............................      106
158327376|Orchestia_stephenseni/1-123                VTXXPKD.......................      123
170321759|Copelatus_nr./1-106                        ..............................      106
170321761|Copelatus_nr./1-106                        ..............................      106
170321765|Copelatus_sp./1-106                        ..............................      106
158324407|Perilestes_kahli/1-105                     ..............................      105
110555663|Papuadytes_perfectus/1-104                 ..............................      104
224814404|Acrophylla_wuelfingi/1-104                 ..............................      104
224814420|Baculofractum_insigne/1-104                ..............................      104
224814424|Canachus_alligator/1-104                   ..............................      104
224814442|Diapheromera_femorata/1-104                ..............................      104
224814468|Spinonemia_chilensis/1-104                 ..............................      104
224814476|Acrophylla_thoon/1-104                     ..............................      104
224814478|Anchiale_briareus/1-104                    ..............................      104
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                  4 K STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI 4
                                                      3                                                                                                 3
                                                      2                                                                                                 2
                                                      1                                                                                                 1
224814480|Tropidoderus_childreni/1-104                ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  104
224814496|Necrosciinae_TRB-2009/1-104                ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  104
224814544|Thaumatobactron_guenth/1-104                ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  104
224814548|Trachyaretaon_brueckne/1-104                ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  104
257783591|Pomacea_diffusa/1-104                       ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  104
290465443|Eurycnema_goliath/1-104                     ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  104
290465453|Didymuria_sp./1-104                         ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  104
290465459|Ctenomorpha_sp./1-104                       ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  104
290465463|Tropidoderus_sp./1-104                      ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  104
290465467|Tropidoderus_sp./1-104                      ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  104
300792756|Melampus_coffeus/1-104                      ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  104
53828083|Cosmoscarta_sp./1-103                        ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
54179369|Amphizoa_insolens/1-103                      ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
54179371|Amphizoa_lecontei/1-103                      ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
54179373|Aspidytes_niobe/1-103                        ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
54179375|Agabus_disintegratus/1-103                   ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
54179377|Agabus_heydeni/1-103                         ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
54179379|Coptotomus_lenticus/1-103                    ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
54179381|Liopterus_haemorrhoidal/1-103                ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
54179383|Papuadytes_sp./1-103                         ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
consensus                                             K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA*

logo                                                  4                                   4
                                                      3                                   3
                                                      2                                   2
                                                      1                                   1
224814480|Tropidoderus_childreni/1-104                ..............................      104
224814496|Necrosciinae_TRB-2009/1-104                ..............................      104
224814544|Thaumatobactron_guenth/1-104               ..............................      104
224814548|Trachyaretaon_brueckne/1-104               ..............................      104
257783591|Pomacea_diffusa/1-104                      ..............................      104
290465443|Eurycnema_goliath/1-104                    ..............................      104
290465453|Didymuria_sp./1-104                        ..............................      104
290465459|Ctenomorpha_sp./1-104                      ..............................      104
290465463|Tropidoderus_sp./1-104                     ..............................      104
290465467|Tropidoderus_sp./1-104                     ..............................      104
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53828083|Cosmoscarta_sp./1-103                       ..............................      103
54179369|Amphizoa_insolens/1-103                     ..............................      103
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54179373|Aspidytes_niobe/1-103                       ..............................      103
54179375|Agabus_disintegratus/1-103                  ..............................      103
54179377|Agabus_heydeni/1-103                        ..............................      103
54179379|Coptotomus_lenticus/1-103                   ..............................      103
54179381|Liopterus_haemorrhoidal/1-103               ..............................      103
54179383|Papuadytes_sp./1-103                        ..............................      103
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                   4 K STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA  4
                                                       3                                                                                                                                  3
                                                       2                                                                                                                                  2
                                                       1                                                                                                                                  1
54179387|Lacconectus_peguensis/1-103                   .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
126165809|Spartaeus_thailandicus/1-111               ...................QQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  111
4883745|Unixenus_mjobergi/1-109                       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKL  109
54179389|Haliplus_lineatocollis/1-103                 .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
54179393|Peltodytes_rotundatus/1-103                  .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
54179401|Notomicrus_tenellus/1-103                    .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
54179403|Noterus_clavicornis/1-103                    .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
54179405|Suphis_sp./1-103                             .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
54179407|Suphisellus_sp./1-103                        .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
224814450|Epidares_nolimetangere/1-103               .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
307147334|Phreatodytes_haibaraen/1-103               .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  103
124488485|Allopachria_balkei/1-102                    ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
124488487|Andex_insignis/1-102                        ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
124488491|Australphilus_montanus/1-102                ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
124488493|Bidessodes_mjobergi/1-102                   ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
124488495|Canthyporus_parvus/1-102                    ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
124488497|Celina_sp./1-102                            ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
124488499|Coelhydrus_brevicollis/1-102                ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
124488501|Darwinhydrus_solidus/1-102                  ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
124488503|Derovatellus_lentus/1-102                   ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
consensus                                                                  * STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA
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logo                                                   4                                  4
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                                                       2                                  2
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54179387|Lacconectus_peguensis/1-103                   ..................................  103
126165809|Spartaeus_thailandicus/1-111                 ..................................  111
4883745|Unixenus_mjobergi/1-109                        ..................................  109
54179389|Haliplus_lineatocollis/1-103                  ..................................  103
54179393|Peltodytes_rotundatus/1-103                   ..................................  103
54179401|Notomicrus_tenellus/1-103                     ..................................  103
54179403|Noterus_clavicornis/1-103                     ..................................  103
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224814450|Epidares_nolimetangere/1-103                 ..................................  103
307147334|Phreatodytes_haibaraen/1-103                 ..................................  103
124488485|Allopachria_balkei/1-102                     ..................................  102
124488487|Andex_insignis/1-102                         ..................................  102
124488491|Australphilus_montanus/1-102                 ..................................  102
124488493|Bidessodes_mjobergi/1-102                    ..................................  102
124488495|Canthyporus_parvus/1-102                     ..................................  102
124488497|Celina_sp./1-102                             ..................................  102
124488499|Coelhydrus_brevicollis/1-102                 ..................................  102
124488501|Darwinhydrus_solidus/1-102                   ..................................  102
124488503|Derovatellus_lentus/1-102                    ..................................  102
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
124488505|Desmopachria_convexa/1-102    ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488509|Desmopachria_sp./1-102        ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488511|Graptodytes_flavipes/1-102    ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488513|Herophydrus_inquinatus/1-102  ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488515|Hovahydrus_sp./1-102          ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488517|Hydropeplus_trimaculat/1-102  ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488519|Hydroporus_planus/1-102       ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488523|Hydrovatus_nigrita/1-102      ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488525|Hygrotus_inaequalis/1-102     ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488529|Hyphydrus_orientalis/1-102    ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488531|Hyphydrus_elegans/1-102       ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488533|Hyphydrus_sp./1-102           ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488537|Hyphydrus_aubei/1-102         ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488539|Hyphydrus_ovatus/1-102        ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488541|Laccophilus_poecilus/1-102    ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488543|Laccornellus_copelatoi/1-102  ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
51301|Mus_musculus/1-136                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAMHAKR    117
211859|Gallus_gallus/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAMHAKR    117
124488545|Laccornis_oblongus/1-102      ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
124488547|Microdytes_elgae/1-102        ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
consensus                                                         STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
124488505|Desmopachria_convexa/1-102    ..............................    102
124488509|Desmopachria_sp./1-102        ..............................    102
124488511|Graptodytes_flavipes/1-102    ..............................    102
124488513|Herophydrus_inquinatus/1-102  ..............................    102
124488515|Hovahydrus_sp./1-102          ..............................    102
124488517|Hydropeplus_trimaculat/1-102  ..............................    102
124488519|Hydroporus_planus/1-102       ..............................    102
124488523|Hydrovatus_nigrita/1-102      ..............................    102
124488525|Hygrotus_inaequalis/1-102     ..............................    102
124488529|Hyphydrus_orientalis/1-102    ..............................    102
124488531|Hyphydrus_elegans/1-102       ..............................    102
124488533|Hyphydrus_sp./1-102           ..............................    102
124488537|Hyphydrus_aubei/1-102         ..............................    102
124488539|Hyphydrus_ovatus/1-102        ..............................    102
124488541|Laccophilus_poecilus/1-102    ..............................    102
124488543|Laccornellus_copelatoi/1-102  ..............................    102
51301|Mus_musculus/1-136                VTIMPKDIQLARRIRGERA............    136
211859|Gallus_gallus/1-136              VTIMPKDIQLARRIRGERA............    136
124488545|Laccornis_oblongus/1-102      ..............................    102
124488547|Microdytes_elgae/1-102        ..............................    102
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
124488549|Microdytes_pasiricus/1-102      ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
124488551|Microdytes_maculatus/1-102      ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
124488557|Nebrioporus_clarkii/1-102       ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
124488559|Neptosternus_hydaticoi/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
167614080|Pomacea_canaliculata/1-105     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF...........  105
194173289|Rakaia_antipodiana/1-100       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........  100
219524057|Ebalia_tuberculosa/1-100        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........  100
257783356|Parascutigera_sphinx/1-100      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........  100
257783559|Pomacea_insularum/1-100         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........  100
262179088|Selenops_lindborgi/1-100        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........  100
306975008|Selenops_simius/1-100           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........  100
45545272|Bolbena_maraisi/1-99             .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFED..........   99
84683141|Anelpistina_negreai/1-99         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFED..........   99
158345908|Pheidole_cockerelli/1-99        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFED..........   99
257783310|Scutigera_coleoptrata/1-99      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFED..........   99
262179094|Selenops_lindborgi/1-99         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFED..........   99
289536544|Mysmena_sp./1-99                .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFED..........   99
306975568|Selenops_sp./1-99               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFED..........   99
55741147|Cyphophthalmus_zetae/1-98        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFE...........   98
94014529|Copelatus_sp./1-98               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFE...........   98
consensus                                                        RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFED*

logo

124488549|Microdytes_pasiricus/1-102      ..................................  102
124488551|Microdytes_maculatus/1-102      ..................................  102
124488557|Nebrioporus_clarkii/1-102       ..................................  102
124488559|Neptosternus_hydaticoi/1-102   ..................................  102
167614080|Pomacea_canaliculata/1-105     ..................................  105
194173289|Rakaia_antipodiana/1-100       ..................................  100
219524057|Ebalia_tuberculosa/1-100        ..................................  100
257783356|Parascutigera_sphinx/1-100      ..................................  100
257783559|Pomacea_insularum/1-100         ..................................  100
262179088|Selenops_lindborgi/1-100        ..................................  100
306975008|Selenops_simius/1-100           ..................................  100
45545272|Bolbena_maraisi/1-99             ..................................   99
84683141|Anelpistina_negreai/1-99         ..................................   99
158345908|Pheidole_cockerelli/1-99        ..................................   99
257783310|Scutigera_coleoptrata/1-99      ..................................   99
262179094|Selenops_lindborgi/1-99         ..................................   99
289536544|Mysmena_sp./1-99                ..................................   99
306975568|Selenops_sp./1-99               ..................................   99
55741147|Cyphophthalmus_zetae/1-98        ..................................   98
94014529|Copelatus_sp./1-98               ..................................   98
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
110555253|Zenodorus_cf./1-98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158345940|Pheidole_fiorii/1-98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
262179100|Selenops_lindborgi/1-98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
262178786|Selenops_insularis/1-97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
262178844|Selenops_sp./1-97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
262179080|Selenops_lindborgi/1-97                                                                                                                                                                                                                                                                                
306975006|Selenops_simius/1-97                                                                                
306975482|Selenops_sp./1-97                                                                
239736597|Tasmanophlebia_sp./1-102                                                                
126165789|Oxyopes_birmanicus/1-112                                                                
196481226|Leptophlebiidae_sp./1-112                                                                
219923277|Deckenia_mitis/1-105                                                                
219923283|Platythelphusa_armata/1-105                                                                
219923289|Austrothelphusa_transv/1-105                                                                
219923291|Austrothelphusa_sp./1-105                                                                
219923293|Geelvinkia_holthuisi/1-105                                                                
219923295|Bakousa_sarawakensis/1-105                                                                
219923297|Balssiathelphusa_curso/1-105                                                                
219923299|Ceylonthelphusa_kandam/1-105                                                                
219923301|Currothelphusa_asserpe/1-105                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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logo
110555253|Zenodorus_cf./1-98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158345940|Pheidole_fiorii/1-98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
262179100|Selenops_lindborgi/1-98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
262178786|Selenops_insularis/1-97                                                                                                                                                                                                                                                                                
262178844|Selenops_sp./1-97                                                                
262179080|Selenops_lindborgi/1-97                                                                
306975006|Selenops_simius/1-97                                                                
306975482|Selenops_sp./1-97                                                                
239736597|Tasmanophlebia_sp./1-102                                                                
126165789|Oxyopes_birmanicus/1-112                                                                
196481226|Leptophlebiidae_sp./1-112                                                                
219923277|Deckenia_mitis/1-105                                                                
219923283|Platythelphusa_armata/1-105                                                                
219923289|Austrothelphusa_transv/1-105                                                                
219923291|Austrothelphusa_sp./1-105                                                                
219923293|Geelvinkia_holthuisi/1-105                                                                
219923295|Bakousa_sarawakensis/1-105                                                                
219923297|Balssiathelphusa_curso/1-105                                                                
219923299|Ceylonthelphusa_kandam/1-105                                                                
219923301|Currothelphusa_asserpe/1-105                                                                
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
219923305|Gecarcinucus_jacquemon/1-105   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923307|Heterothelphusa_fatum/1-105   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923313|Irmengardia_johnsoni/1-105   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923315|Lepidothelphusa_cognet/1-105   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923319|Maydelliathelphusa_ede/1-105   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923321|Maydelliathelphusa_lug/1-105   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923323|Niasathelphusa_wirzi/1-105     ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923329|Parathelphusa_convexa/1-105    ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923331|Parathelphusa_maculata/1-105   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923333|Parathelphusa_oxygona/1-105    ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923339|Perithelphusa_borneens/1-105   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923341|Perithelphusa_lehi/1-105      ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
219923345|Phricotelphusa_gracili/1-105   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  105
50897779|Cirrhitus_rivulatus/1-107       ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  107
50897955|Margaritifera_falcata/1-107     ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  107
94014910|Copelatus_sp./1-107             ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  107
94014925|Copelatus_sp./1-107             ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  107
106896168|Strombus_sinuatus/1-107        ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  107
196481250|Acanthophlebia_cruenta/1-107   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  107
196481270|Massartellopsis_irarra/1-107   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  107
consensus                                                          STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA
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logo

219923305|Gecarcinucus_jacquemon/1-105   ..................................  105
219923307|Heterothelphusa_fatum/1-105   ..................................  105
219923313|Irmengardia_johnsoni/1-105    ..................................  105
219923315|Lepidothelphusa_cognet/1-105  ..................................  105
219923319|Maydelliathelphusa_ede/1-105  ..................................  105
219923321|Maydelliathelphusa_lug/1-105  ..................................  105
219923323|Niasathelphusa_wirzi/1-105    ..................................  105
219923329|Parathelphusa_convexa/1-105   ..................................  105
219923331|Parathelphusa_maculata/1-105  ..................................  105
219923333|Parathelphusa_oxygona/1-105   ..................................  105
219923339|Perithelphusa_borneens/1-105  ..................................  105
219923341|Perithelphusa_lehi/1-105     ..................................  105
219923345|Phricotelphusa_gracili/1-105  ..................................  105
50897779|Cirrhitus_rivulatus/1-107      ..................................  107
50897955|Margaritifera_falcata/1-107    ..................................  107
94014910|Copelatus_sp./1-107            ..................................  107
94014925|Copelatus_sp./1-107            ..................................  107
106896168|Strombus_sinuatus/1-107       ..................................  107
196481250|Acanthophlebia_cruenta/1-107  ..................................  107
196481270|Massartellopsis_irarra/1-107  ..................................  107
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
196481290|Zephlebia_sp./1-107                  ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     107
257783597|Pomacea_diffusa/1-106                  ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     106
219923347|Phricotelphusa_hockpin/1-105           ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
219923349|Phricotelphusa_limula/1-105            ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
219923353|Salangathelphusa_brevi/1-105           ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
68509499|Mirawara_sp./1-110                      .......................R..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     108
196481224|Thraulus_sp./1-109                     ......................RR..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
110555804|Papuadytes_sp./1-106                   .......................R..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     106
219923355|Sartoriana_blandfordi/1-105            ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
219923357|Sartoriana_spinigera/1-105             ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
219923359|Sayamia_bangkokensis/1-105             ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
219923361|Sayamia_sexpunctata/1-105              ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
219923365|Siamthelphusa_improvis/1-105           ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
219923371|Sundathelphusa_caverni/1-105            ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
219923375|Sundathelphusa_minahas/1-105            ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
219923379|Sundathelphusa_rubra/1-105              ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
219923381|Sundathelphusa_tenebro/1-105            ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
219923387|Terrathelphusa_kuhli/1-105              ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
219923391|Thelphusula_baramensis/1-105            ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
219923395|Thelphusula_sabana/1-105                ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     105
consensus                                                                   STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA

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196481290|Zephlebia_sp./1-107                  ..............................     107
257783597|Pomacea_diffusa/1-106                  ..............................     106
219923347|Phricotelphusa_hockpin/1-105           ..............................     105
219923349|Phricotelphusa_limula/1-105            ..............................     105
219923353|Salangathelphusa_brevi/1-105           ..............................     105
68509499|Mirawara_sp./1-110                      VT............................     110
196481224|Thraulus_sp./1-109                     ..............................     109
110555804|Papuadytes_sp./1-106                   ..............................     106
219923355|Sartoriana_blandfordi/1-105            ..............................     105
219923357|Sartoriana_spinigera/1-105             ..............................     105
219923359|Sayamia_bangkokensis/1-105             ..............................     105
219923361|Sayamia_sexpunctata/1-105              ..............................     105
219923365|Siamthelphusa_improvis/1-105           ..............................     105
219923371|Sundathelphusa_caverni/1-105            ..............................     105
219923375|Sundathelphusa_minahas/1-105            ..............................     105
219923379|Sundathelphusa_rubra/1-105              ..............................     105
219923381|Sundathelphusa_tenebro/1-105            ..............................     105
219923387|Terrathelphusa_kuhli/1-105              ..............................     105
219923391|Thelphusula_baramensis/1-105            ..............................     105
219923395|Thelphusula_sabana/1-105                ..............................     105
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
219923397|Thelphusula_tawauensis/1-105   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   105
240155914|Trichomycterus_corduve/1-105   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   105
300248307|Aphrophora_quadrinotat/1-105   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   105
109134668|Pentatomidae_sp./1-104   ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   104
109134672|Mantodea_sp./1-104   ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   104
219923383|Stygothelphusa_bidiens/1-104   ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   104
219923369|Sundathelphusa_boex/1-99   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   99
157102580|Stictotarsus_ibericus/1-98   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........   98
157102712|Philaccolilus_mekus/1-98   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........   98
6049770|Idanthyrsus_pennatus/1-99   ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   99
6049772|Galeolaria_caespitosa/1-99   ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   99
6049774|Lamellibrachia_satsuma/1-99   ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   99
6049776|Dodecaceria_sp./1-99   ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   99
6049777|Cirratulus_sp./1-99   ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   99
6049778|Pectinaria_sp./1-99   ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   99
6049779|Amphitritides_sp./1-99   ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   99
6049781|Pista_australis/1-99   ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   99
6049782|Fauveliopsis_banyuls/1-99   ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   99
6049783|Sternaspis_sp./1-99   ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   99
6049784|Malacoceros_sp./1-99   ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   99
consensus                                                                          TGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL

logo

219923397|Thelphusula_tawauensis/1-105   ..................................   105
240155914|Trichomycterus_corduve/1-105   ..................................   105
300248307|Aphrophora_quadrinotat/1-105   ..................................   105
109134668|Pentatomidae_sp./1-104   ..................................   104
109134672|Mantodea_sp./1-104   ..................................   104
219923383|Stygothelphusa_bidiens/1-104   ..................................   104
219923369|Sundathelphusa_boex/1-99   ..................................    99
157102580|Stictotarsus_ibericus/1-98   ..................................    98
157102712|Philaccolilus_mekus/1-98   ..................................    98
6049770|Idanthyrsus_pennatus/1-99   ..................................    99
6049772|Galeolaria_caespitosa/1-99   ..................................    99
6049774|Lamellibrachia_satsuma/1-99   ..................................    99
6049776|Dodecaceria_sp./1-99   ..................................    99
6049777|Cirratulus_sp./1-99   ..................................    99
6049778|Pectinaria_sp./1-99   ..................................    99
6049779|Amphitritides_sp./1-99   ..................................    99
6049781|Pista_australis/1-99   ..................................    99
6049782|Fauveliopsis_banyuls/1-99   ..................................    99
6049783|Sternaspis_sp./1-99   ..................................    99
6049784|Malacoceros_sp./1-99   ..................................    99
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
6049786|Paralepidonotus_ampullif/1-99      ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL........ 99
56089815|Labidesthes_sicculus/1-110       ......................AGK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 110
91719090|Callipallene_novaezeala/1-109    ......................GK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
91719092|Parapallene_avida/1-109          ......................GK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 109
158324281|Synthemis_marcrostigma/1-100   ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........ 100
107859980|Elysia_crispata/1-101           ......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL....... 101
6049787|Sigalion_bandaensis/1-99          ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL....... 99
6049788|Glycera_tridactyla/1-99           ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL....... 99
6049789|Aglaophamus_australiensi/1-99     ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL....... 99
6049790|Ceratonereis_longicerato/1-99     ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL....... 99
6049791|Eurythoe_sp./1-99                 ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL....... 99
6049792|Lumbrineris_latreilli/1-99        ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL....... 99
6049793|Marphysa_macintoshi/1-99          ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL....... 99
6049794|Eunice_australis/1-99             ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL....... 99
6049798|Polyophthalmus_pictus/1-99        ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL....... 99
6049799|Phylo_felix/1-99                  ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL....... 99
6049802|Bonellia_sp./1-99                 ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL....... 99
6049803|Sipuncula_sp./1-99                ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL....... 99
19850222|Trichobranchus_sp./1-99          ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL....... 99
19850224|Isolda_sp./1-99                  ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL....... 99
consensus                                                           TGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL
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logo

6049786|Paralepidonotus_ampullif/1-99      ..................................  99
56089815|Labidesthes_sicculus/1-110       ..................................  110
91719090|Callipallene_novaezeala/1-109    ..................................  109
91719092|Parapallene_avida/1-109          ..................................  109
158324281|Synthemis_marcrostigma/1-100    ..................................  100
107859980|Elysia_crispata/1-101           ..................................  101
6049787|Sigalion_bandaensis/1-99          ..................................  99
6049788|Glycera_tridactyla/1-99           ..................................  99
6049789|Aglaophamus_australiensi/1-99     ..................................  99
6049790|Ceratonereis_longicerato/1-99     ..................................  99
6049791|Eurythoe_sp./1-99                 ..................................  99
6049792|Lumbrineris_latreilli/1-99        ..................................  99
6049793|Marphysa_macintoshi/1-99          ..................................  99
6049794|Eunice_australis/1-99             ..................................  99
6049798|Polyophthalmus_pictus/1-99        ..................................  99
6049799|Phylo_felix/1-99                  ..................................  99
6049802|Bonellia_sp./1-99                 ..................................  99
6049803|Sipuncula_sp./1-99                ..................................  99
19850222|Trichobranchus_sp./1-99          ..................................  99
19850224|Isolda_sp./1-99                  ..................................  99
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
19850228|Rhinothelepus_lobatus/1-99          ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......  99
225183563|Rhantus_suturalis/1-105            ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.  105
71726153|Lysmata_debelius/1-98               .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFED..........  98
224814444|Dimorphodes_sp./1-98               .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFED..........  98
157102582|Stictotarsus_roffi/1-95             ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLF............  95
228535422|Neoconocephalus_exilis/1-102        ....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   98
228535434|Neoconocephalus_melano/1-102        ....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   98
228535438|Neoconocephalus_nebras/1-102        ....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   98
228535444|Neoconocephalus_palust/1-102        ....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   98
228535460|Neoconocephalus_retusi/1-102        ....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   98
228535476|Neoconocephalus_satura/1-102        ....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   98
228535492|Neoconocephalus_triops/1-102        ....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   98
300248431|Plinia_sp./1-102                    ....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   98
228535382|Bucrates_malivolans/1-101           ....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   98
228535424|Neoconocephalus_exilis/1-101        ....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   98
161376334|Pteronarcella_badia/1-113           ..........................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
158327342|Palmorchestia_epigaea/1-106         ....................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   99
289536528|Mysmeninae_sp./1-109                .......................SK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
158327352|Palmorchestia_hypogaea/1-106        ....................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   99
158327356|Orchestia_guancha/1-106             ....................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   99
consensus                                                                          *QLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK*

logo

19850228|Rhinothelepus_lobatus/1-99          ..................................  99
225183563|Rhantus_suturalis/1-105            ..................................  105
71726153|Lysmata_debelius/1-98               ..................................  98
224814444|Dimorphodes_sp./1-98               ..................................  98
157102582|Stictotarsus_roffi/1-95             ..................................  95
228535422|Neoconocephalus_exilis/1-102        VTIM..............................  102
228535434|Neoconocephalus_melano/1-102        VTIM..............................  102
228535438|Neoconocephalus_nebras/1-102        VTIM..............................  102
228535444|Neoconocephalus_palust/1-102        VTIM..............................  102
228535460|Neoconocephalus_retusi/1-102        VTIM..............................  102
228535476|Neoconocephalus_satura/1-102        VTIM..............................  102
228535492|Neoconocephalus_triops/1-102        VTIM..............................  102
300248431|Plinia_sp./1-102                    VTIM..............................  102
228535382|Bucrates_malivolans/1-101           VTI...............................  101
228535424|Neoconocephalus_exilis/1-101        VTI...............................  101
161376334|Pteronarcella_badia/1-113           VTIMPKDI..........................  113
158327342|Palmorchestia_epigaea/1-106         VTIMPKD...........................  106
289536528|Mysmeninae_sp./1-109                ..................................  109
158327352|Palmorchestia_hypogaea/1-106        VTIMPKD...........................  106
158327356|Orchestia_guancha/1-106             VTIMPKD...........................  106
consensus                                      ****
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
228535446|Neoconocephalus_palust/1-101   ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
228535464|Neoconocephalus_retusu/1-101   ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
228535474|Neoconocephalus_robust/1-101   ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
228535480|Neoconocephalus_satura/1-101   ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
228535490|Neoconocephalus_triops/1-101   ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
228535510|Neoconocephalus_velox/1-101   ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
251824570|Calcinus_hakahau/1-99          ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
94014915|Copelatus_sp./1-98              ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
110627830|Lumbrineris_magnidenta/1-98    ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
110627864|Polygordius_lacteus/1-98       ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
162424384|Akalyptoischion_atrich/1-98    ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
196481236|Leptophlebiidae_sp./1-98       ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
196481244|Leptophlebiidae_sp./1-98       ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
209394889|Dendrodrilus_rubidus/1-98      ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
224814540|Hyrtacus_sp./1-98              ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
259157667|Zelandoperla_decorata/1-98     ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
289536518|Mysmeninae_sp./1-98            ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
196175129|Matacosa_miscella/1-105        ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    102
294805049|Halticoperla_tara/1-98         ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
294805053|Halticoperla_viridens/1-98     ..................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     98
consensus                                                                  QLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
228535446|Neoconocephalus_palust/1-101   VTI...............................     101
228535464|Neoconocephalus_retusu/1-101   VTI...............................     101
228535474|Neoconocephalus_robust/1-101   VTI...............................     101
228535480|Neoconocephalus_satura/1-101   VTI...............................     101
228535490|Neoconocephalus_triops/1-101   VTI...............................     101
228535510|Neoconocephalus_velox/1-101    VTI...............................     101
251824570|Calcinus_hakahau/1-99          V................................      99
94014915|Copelatus_sp./1-98              ................................      98
110627830|Lumbrineris_magnidenta/1-98    ................................      98
110627864|Polygordius_lacteus/1-98       ................................      98
162424384|Akalyptoischion_atrich/1-98    ................................      98
196481236|Leptophlebiidae_sp./1-98       ................................      98
196481244|Leptophlebiidae_sp./1-98       ................................      98
209394889|Dendrodrilus_rubidus/1-98      ................................      98
224814540|Hyrtacus_sp./1-98              ................................      98
259157667|Zelandoperla_decorata/1-98     ................................      98
289536518|Mysmeninae_sp./1-98            ................................      98
196175129|Matacosa_miscella/1-105        VTI...............................     105
294805049|Halticoperla_tara/1-98         ................................      98
294805053|Halticoperla_viridens/1-98     ................................      98
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300393497|Marionia_levis/1-98                  .....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      98
300393515|Tritonia_sp./1-98                      .....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      98
109134700|Harmalia_ostorius/1-101                .....................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      99
306975048|Selenops_curazao/1-98                  .....................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      98
196481300|Paraleptophlebia_adopt/1-99            .....................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      99
224814554|Zehntneria_mystica/1-99                .....................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      99
262178636|Selenops_bifurcatus/1-99               .....................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      99
262179190|Selenops_micropalpus/1-99              .....................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      99
290750989|Pseudostomatella_eryth/1-99            .....................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      99
306975000|Selenops_debilis/1-99                  .....................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      99
306975064|Selenops_sp./1-99                      .....................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      99
297040796|Callobius_sp./1-124                    ...............MARTKQTARK..STPGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
306975414|Selenops_petrunkevitch/1-99            .....................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR      99
15986561|Periplaneta_americana/1-104             ............................GKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     104
45545246|Stagmatoptera_sp./1-104                 ............................GKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     104
53828097|Aeneolamia_contigua/1-104               ............................GKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     104
196481334|Farrodes_sp./1-104                     ............................GKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     104
196481350|Baetidae_sp./1-104                     ............................GKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     104
219524085|Parastacus_varicosus/1-104             ............................GKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     104
196481306|Paraleptophlebia_moere/1-103           ............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     103
consensus                                                                     KQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

300393497|Marionia_levis/1-98                  ..................................      98
300393515|Tritonia_sp./1-98                    ..................................      98
109134700|Harmalia_ostorius/1-101              VT................................     101
306975048|Selenops_curazao/1-98                ..................................      98
196481300|Paraleptophlebia_adopt/1-99          ..................................      99
224814554|Zehntneria_mystica/1-99              ..................................      99
262178636|Selenops_bifurcatus/1-99             ..................................      99
262179190|Selenops_micropalpus/1-99            ..................................      99
290750989|Pseudostomatella_eryth/1-99          ..................................      99
306975000|Selenops_debilis/1-99                ..................................      99
306975064|Selenops_sp./1-99                    ..................................      99
297040796|Callobius_sp./1-124                  VTIMPKD...........................     124
306975414|Selenops_petrunkevitch/1-99          ..................................      99
15986561|Periplaneta_americana/1-104           ..................................     104
45545246|Stagmatoptera_sp./1-104               ..................................     104
53828097|Aeneolamia_contigua/1-104             ..................................     104
196481334|Farrodes_sp./1-104                   ..................................     104
196481350|Baetidae_sp./1-104                   ..................................     104
219524085|Parastacus_varicosus/1-104           ..................................     104
196481306|Paraleptophlebia_moere/1-103         ..................................     103
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
262178964|Selenops_lindborgi/1-103   ...............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   103
45545196|Tenodera_aridifolia/1-102   ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
94014636|Copelatus_sp./1-102         ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
215260742|Granopupa_granum/1-102     ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
215260746|Granaria_variabilis/1-102  ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
215260748|Granaria_frumentum/1-102   ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
215260750|Granaria_stabili/1-102     ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
215260752|Solatopupa_similis/1-102   ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
215260754|Chondrina_maginensis/1-102 ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
215260756|Chondrina_tenuimargina/1-102 ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
215260758|Abida_secale/1-102         ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
215260760|Rupestrella_rhodia/1-102   ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
215260762|Rupestrella_occulta/1-102  ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
215260764|Rupestrella_rupestris/1-102 ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
215260766|Ena_montana/1-102          ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
224814556|Gratidia_sp./1-102         ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
261942215|Dysdera_lantosquensis/1-102 ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
262178894|Selenops_lindborgi/1-102   ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
282762196|Hickmania_troglodytes/1-102 ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
294805043|Cristaperla_waharoa/1-102  ...............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   102
consensus                                                          APRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

262178964|Selenops_lindborgi/1-103   ..................................   103
45545196|Tenodera_aridifolia/1-102   ..................................   102
94014636|Copelatus_sp./1-102         ..................................   102
215260742|Granopupa_granum/1-102     ..................................   102
215260746|Granaria_variabilis/1-102  ..................................   102
215260748|Granaria_frumentum/1-102   ..................................   102
215260750|Granaria_stabili/1-102     ..................................   102
215260752|Solatopupa_similis/1-102   ..................................   102
215260754|Chondrina_maginensis/1-102 ..................................   102
215260756|Chondrina_tenuimargina/1-102 ..................................   102
215260758|Abida_secale/1-102         ..................................   102
215260760|Rupestrella_rhodia/1-102   ..................................   102
215260762|Rupestrella_occulta/1-102  ..................................   102
215260764|Rupestrella_rupestris/1-102 ..................................   102
215260766|Ena_montana/1-102          ..................................   102
224814556|Gratidia_sp./1-102         ..................................   102
261942215|Dysdera_lantosquensis/1-102 ..................................   102
262178894|Selenops_lindborgi/1-102   ..................................   102
282762196|Hickmania_troglodytes/1-102 ..................................   102
294805043|Cristaperla_waharoa/1-102  ..................................   102
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
294805047|Cristaperla_fimbria/1-102      ..............................APRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  102
33086764|Robertus_neglectus/1-101          ..............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  101
91719102|Anoplodactylus_viridint/1-101   ..............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  101
158324321|Matrona_basilaris/1-101        ..............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  101
196481234|Leptophlebiidae_sp./1-101      ..............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  101
86372426|Aspidosiphon_gosnoldi/1-109     .......................RK..SSGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
196175145|Phrictus_tripartitus/1-107     ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
297039134|Pseudotanais_sp./1-107          ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
297039138|Parapseudes_latifrons/1-107    ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
297039140|Paratanais_sp./1-107            ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
297039144|Pseudoapseudomorpha_sp/1-107   ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
297039156|Hargeria_rapax/1-107           ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
297039162|Monokalliapseudes_schu/1-107   ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
297039164|Leptochelia_dubia/1-107         ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
290918558|Aristeomorpha_foliacea/1-106   ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
290918564|Procaris_ascensionis/1-106     ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
290918570|Pontophilus_norvegicus/1-106   ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
290918572|Macrobrachium_pilimanu/1-106   ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
15986565|Balanus_balanus/1-105           ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
38505238|Ostrea_edulis/1-105             ............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  105
consensus                                                            ***APRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

294805047|Cristaperla_fimbria/1-102      ..............................  102
33086764|Robertus_neglectus/1-101        ..............................  101
91719102|Anoplodactylus_viridint/1-101   ..............................  101
158324321|Matrona_basilaris/1-101        ..............................  101
196481234|Leptophlebiidae_sp./1-101      ..............................  101
86372426|Aspidosiphon_gosnoldi/1-109     ..............................  109
196175145|Phrictus_tripartitus/1-107     VT............................  107
297039134|Pseudotanais_sp./1-107         VT............................  107
297039138|Parapseudes_latifrons/1-107    VT............................  107
297039140|Paratanais_sp./1-107           VT............................  107
297039144|Pseudoapseudomorpha_sp/1-107   VT............................  107
297039156|Hargeria_rapax/1-107           VT............................  107
297039162|Monokalliapseudes_schu/1-107   VT............................  107
297039164|Leptochelia_dubia/1-107        VT............................  107
290918558|Aristeomorpha_foliacea/1-106   V.............................  106
290918564|Procaris_ascensionis/1-106     V.............................  106
290918570|Pontophilus_norvegicus/1-106   V.............................  106
290918572|Macrobrachium_pilimanu/1-106   V.............................  106
15986565|Balanus_balanus/1-105           ..............................  105
38505238|Ostrea_edulis/1-105             ..............................  105
consensus                                *
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
50897801|Salarias_fasciatus/1-105          ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     105
94014650|Copelatus_sp./1-105                ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     105
94014730|Copelatus_sp./1-105                ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     105
94014929|Copelatus_sp./1-105                ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     105
106896162|Strombus_raninus/1-105            ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     105
196481232|Thraulus_sp./1-105                ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     105
196481340|Hexagenia_sp./1-105               ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     105
196481342|Ephemera_guttulata/1-105          ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     105
219524055|Euastacus_spinichelatu/1-105      ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     105
253584698|Glysterus_sp./1-105               ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     105
196481292|Leptophlebia_bradleyi/1-101       ...............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
196481344|Ephoron_leukon/1-101              ...............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
208479674|Geophagus_steindachner/1-101      ...............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
208479686|Cichlasoma_festae/1-101           ...............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
219524041|Chorilia_longipes/1-101           ...............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
224814426|Carausius_morosus/1-101           ...............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
224814490|Monandroptera_acanthom/1-101      ...............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
224814506|Peruphasma_schultei/1-101         ...............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
224814514|Phaenopharos_khaoyaien/1-101      ...............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
157673869|Leucauge_venusta/1-109            .......................RK..GTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                                 ****PRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

50897801|Salarias_fasciatus/1-105          ..............................     105
94014650|Copelatus_sp./1-105                ..............................     105
94014730|Copelatus_sp./1-105                ..............................     105
94014929|Copelatus_sp./1-105                ..............................     105
106896162|Strombus_raninus/1-105            ..............................     105
196481232|Thraulus_sp./1-105                ..............................     105
196481340|Hexagenia_sp./1-105               ..............................     105
196481342|Ephemera_guttulata/1-105          ..............................     105
219524055|Euastacus_spinichelatu/1-105      ..............................     105
253584698|Glysterus_sp./1-105               ..............................     105
196481292|Leptophlebia_bradleyi/1-101       ..............................     101
196481344|Ephoron_leukon/1-101              ..............................     101
208479674|Geophagus_steindachner/1-101      ..............................     101
208479686|Cichlasoma_festae/1-101           ..............................     101
219524041|Chorilia_longipes/1-101           ..............................     101
224814426|Carausius_morosus/1-101           ..............................     101
224814490|Monandroptera_acanthom/1-101      ..............................     101
224814506|Peruphasma_schultei/1-101         ..............................     101
224814514|Phaenopharos_khaoyaien/1-101      ..............................     101
157673869|Leucauge_venusta/1-109            ..............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
16118767|Anadara_grandis/1-108          ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118769|Anadara_tuberculosa/1-108      ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118771|Anadara_similis/1-108           ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118773|Anadara_ovalis/1-108            ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118775|Anadara_transversa/1-108        ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118777|Anadara_nux/1-108               ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118779|Anadara_chemnitzii/1-108        ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118781|Anadara_adamsi/1-108            ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118783|Barbatia_candida/1-108          ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118785|Barbatia_reeveana/1-108         ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118787|Arca_imbricata/1-108            ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118789|Arca_mutabilis/1-108            ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118791|Arca_pacifica/1-108             ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118793|Arca_ventricosa/1-108           ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118795|Barbatia_domingensis/1-108      ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118797|Barbatia_plicata/1-108          ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118799|Barbatia_gradata/1-108          ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118803|Noetia_olssoni/1-108            ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118805|Noetia_ponderosa/1-108          ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
16118807|Arcopsis_adamsi/1-108           ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT...     108
consensus                                                           TGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT
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16118767|Anadara_grandis/1-108          ..........................     108
16118769|Anadara_tuberculosa/1-108      ..........................     108
16118771|Anadara_similis/1-108          ..........................     108
16118773|Anadara_ovalis/1-108           ..........................     108
16118775|Anadara_transversa/1-108       ..........................     108
16118777|Anadara_nux/1-108              ..........................     108
16118779|Anadara_chemnitzii/1-108       ..........................     108
16118781|Anadara_adamsi/1-108           ..........................     108
16118783|Barbatia_candida/1-108         ..........................     108
16118785|Barbatia_reeveana/1-108        ..........................     108
16118787|Arca_imbricata/1-108           ..........................     108
16118789|Arca_mutabilis/1-108           ..........................     108
16118791|Arca_pacifica/1-108            ..........................     108
16118793|Arca_ventricosa/1-108          ..........................     108
16118795|Barbatia_domingensis/1-108     ..........................     108
16118797|Barbatia_plicata/1-108         ..........................     108
16118799|Barbatia_gradata/1-108         ..........................     108
16118803|Noetia_olssoni/1-108           ..........................     108
16118805|Noetia_ponderosa/1-108         ..........................     108
16118807|Arcopsis_adamsi/1-108          ..........................     108
consensus
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X non conserved
X similar
X $\geq$50% conserved
X $\geq$80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
16118809|Arcopsis_solida/1-108                  ..............................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     106
16118811|Glycimeris_sp./1-108                    ..............................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     106
16118823|Arca_zebra/1-108                        ..............................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     106
126165779|Lyssomanes_viridis/1-108               ..............................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     106
188037168|Dicranosepsis_distinct/1-108           ..............................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     106
224814516|Pharnacia_ponderosa/1-101              ................................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
224814528|Pterinoxylus_crassus/1-101              ................................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
224814536|Sipyloidea_sipylus/1-101                ................................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
224814538|Spiniphasma_crassithor/1-101            ................................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
262178874|Selenops_lindborgi/1-101                ................................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
294805041|Cristaperla_eylesi/1-101                ................................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     101
94014920|Copelatus_sp./1-106                      ..............................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     106
94014939|Copelatus_sp./1-106                      ..............................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     106
255934618|Myrcinus_tuberosus/1-109                ......................CK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
148372397|Cephalopholis_boenak/1-110              ......................ACK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     110
158346062|Pheidole_sicaria/1-107                  ......................CK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     107
257783601|Pomacea_guyanensis/1-110                ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     107
300248343|Hindoloides_bipunctata/1-110            ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     107
300248433|Peuceptyelus_sp./1-110                  ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     107
126165771|Cosmophasis_umbratica/1-109             ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     107
consensus                                                                  *****PRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

logo

16118809|Arcopsis_solida/1-108                  VT.............................     108
16118811|Glycimeris_sp./1-108                    VT.............................     108
16118823|Arca_zebra/1-108                        VT.............................     108
126165779|Lyssomanes_viridis/1-108               VT.............................     108
188037168|Dicranosepsis_distinct/1-108           VT.............................     108
224814516|Pharnacia_ponderosa/1-101              ...............................     101
224814528|Pterinoxylus_crassus/1-101              ...............................     101
224814536|Sipyloidea_sipylus/1-101                ...............................     101
224814538|Spiniphasma_crassithor/1-101            ...............................     101
262178874|Selenops_lindborgi/1-101                ...............................     101
294805041|Cristaperla_eylesi/1-101                ...............................     101
94014920|Copelatus_sp./1-106                      ...............................     106
94014939|Copelatus_sp./1-106                      ...............................     106
255934618|Myrcinus_tuberosus/1-109                ...............................     109
148372397|Cephalopholis_boenak/1-110              ...............................     110
158346062|Pheidole_sicaria/1-107                  ...............................     107
257783601|Pomacea_guyanensis/1-110                VTI............................     110
300248343|Hindoloides_bipunctata/1-110            VTI............................     110
300248433|Peuceptyelus_sp./1-110                  VTI............................     110
126165771|Cosmophasis_umbratica/1-109             VT.............................     109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255761642|Dicranosepsis_revocans/1-109   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   107
94014959|Copelatus_sp./1-106             ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   106
94014964|Copelatus_sp./1-106             ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   106
94014978|Copelatus_sp./1-106             ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   106
162424386|Akalyptoischion_sleepe/1-106   ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   106
196481260|Deleatidium_sp./1-106          ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   106
262068511|Diplostyla_concolor/1-106      ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   106
84683147|Anelpistina_puertoricen/1-100   ...................................RKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   100
219524063|Hippolyte_bifidirostri/1-100   ...................................RKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   100
224814462|Pterobrimus_depressus/1-100    ...................................RKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   100
224814526|Pseudophasma_velutinum/1-100   ...................................RKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   100
294805045|Cristaperla_fimbria/1-100      ...................................RKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   100
300393505|Marionia_sp./1-100             ...................................RKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   100
112294037|Elysia_crispata/1-99           ...................................RKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.    99
71726159|Palaemonetes_paludosus/1-96     ......................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..    96
257783557|Pomacea_insularum/1-96         ......................................QLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..    96
109134670|Heteroptera_sp./1-103           ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...   103
124488561|Pachydrus_cf./1-102            ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
124488563|Philaccolilus_bellissi/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
124488565|Primospes_suturalis/1-102      ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
consensus                                                          ******RKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA**

logo

255761642|Dicranosepsis_revocans/1-109   VT.............................     109
94014959|Copelatus_sp./1-106             ..............................     106
94014964|Copelatus_sp./1-106             ..............................     106
94014978|Copelatus_sp./1-106             ..............................     106
162424386|Akalyptoischion_sleepe/1-106   ..............................     106
196481260|Deleatidium_sp./1-106          ..............................     106
262068511|Diplostyla_concolor/1-106      ..............................     106
84683147|Anelpistina_puertoricen/1-100   ..............................     100
219524063|Hippolyte_bifidirostri/1-100   ..............................     100
224814462|Pterobrimus_depressus/1-100    ..............................     100
224814526|Pseudophasma_velutinum/1-100   ..............................     100
294805045|Cristaperla_fimbria/1-100      ..............................     100
300393505|Marionia_sp./1-100             ..............................     100
112294037|Elysia_crispata/1-99           ..............................      99
71726159|Palaemonetes_paludosus/1-96     ..............................      96
257783557|Pomacea_insularum/1-96         ..............................      96
109134670|Heteroptera_sp./1-103           ..............................     103
124488561|Pachydrus_cf./1-102            ..............................     102
124488563|Philaccolilus_bellissi/1-102   ..............................     102
124488565|Primospes_suturalis/1-102      ..............................     102
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
124488569|Yola_bicarinata/1-102                  ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102416|Agametrus_sp./1-102                      ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102418|Agabus_bipustulatus/1-102                ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102420|Agabus_brunneus/1-102                    ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102422|Agabus_congener/1-102                    ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102424|Agabus_heydeni/1-102                     ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102426|Agabinus_glabrellus/1-102                ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102428|Agabinus_sculpturellus/1-102             ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102430|Leuronectes_sp./1-102                    ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
68509493|Siphlonella_sp./1-125                    ...............MARTKQTARX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  117
239736605|Siphluriscus_sp./1-113                  ......................TARX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  111
30140280|Nectonemertes_mirabilis/1-110             .......................ARX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
58199440|Steatocranus_tinanti/1-110               .......................ARX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
208479642|Aequidens_tetramerus/1-110               .......................ARX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
208479682|Australoheros_facetus/1-110              .......................ARX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
55741151|Siro_valleorum/1-109                      ......................RX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184516|Ichthyophis_cf./1-109                     ......................RX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
90184896|Ichthyophis_sp./1-109                     ......................RX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
98365381|Rakaia_denticulata/1-109                  ......................RX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
158345884|Pheidole_browni/1-107                   ......................RX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
consensus                                           **  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA*****

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124488569|Yola_bicarinata/1-102                  ..............................  102
157102416|Agametrus_sp./1-102                    ..............................  102
157102418|Agabus_bipustulatus/1-102              ..............................  102
157102420|Agabus_brunneus/1-102                  ..............................  102
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98365381|Rakaia_denticulata/1-109                ..............................  109
158345884|Pheidole_browni/1-107                  ..............................  107
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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158345946|Pheidole_floridana/1-107          .....................RX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..  107
157102432|Hydrotrupes_palpalis/1-102          .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102434|Ilybiosoma_seriatum/1-102           .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102436|Ilybius_hozgargantae/1-102          .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102438|Ilybius_meridionalis/1-102          .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102440|Platynectes_sp./1-102               .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102442|Platynectes_sp./1-102               .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102444|Platynectes_sp./1-102               .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102446|Platambus_maculatus/1-102           .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102448|Platynectes_cf./1-102               .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102450|Platynectes_decempunct/1-102        .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102452|Antiporus_femoralis/1-102           .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102454|Antiporus_strigosulus/1-102         .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102456|Barretthydrus_tibialis/1-102        .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102460|Chostonectes_sharpi/1-102           .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102462|Paroster_gibbi/1-102                .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102464|Sternopriscus_hansardi/1-102        .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102466|Tiporus_josepheni/1-102             .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102468|Allodessus_bistrigatus/1-102        .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
219923269|Johora_singaporensis/1-103          .......................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  103
consensus                                                            STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA

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158345946|Pheidole_floridana/1-107          ..................................  107
157102432|Hydrotrupes_palpalis/1-102        ..................................  102
157102434|Ilybiosoma_seriatum/1-102         ..................................  102
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157102438|Ilybius_meridionalis/1-102        ..................................  102
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157102442|Platynectes_sp./1-102             ..................................  102
157102444|Platynectes_sp./1-102             ..................................  102
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157102448|Platynectes_cf./1-102             ..................................  102
157102450|Platynectes_decempunct/1-102      ..................................  102
157102452|Antiporus_femoralis/1-102         ..................................  102
157102454|Antiporus_strigosulus/1-102       ..................................  102
157102456|Barretthydrus_tibialis/1-102      ..................................  102
157102460|Chostonectes_sharpi/1-102         ..................................  102
157102462|Paroster_gibbi/1-102              ..................................  102
157102464|Sternopriscus_hansardi/1-102      ..................................  102
157102466|Tiporus_josepheni/1-102           ..................................  102
157102468|Allodessus_bistrigatus/1-102      ..................................  102
219923269|Johora_singaporensis/1-103        ..................................  103
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102474|Bidessus_goudotii/1-102                  ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102478|Fontidessus_toboganens/1-102              ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102480|Bidessini_sp./1-102                        ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102482|Bidessonotus_longovali/1-102               ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102486|Clypeodytes_meridional/1-102               ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102488|Hydroglyphus_pusillus/1-102                ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102492|Leiodytes_sp./1-102                        ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102494|Liodessus_obscurellus/1-102                ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102496|Sharphydrus_sp./1-102                      ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102500|Canthyporus_nebulosus/1-102                ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102502|Canthyporus_hottentotu/1-102               ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102504|Canthyporus_congener/1-102                 ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102506|Carabdytes_upin/1-102                      ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102508|Colymbetes_schildknech/1-102               ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
109159160|Luvarus_imperialis/1-110                  ......................ARN..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  110
157102512|Melanodytes_pustulatus/1-102               ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102514|Meladema_coriacea/1-102                    ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102516|Neoscutopterus_hornii/1-102                ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102518|Rhantus_calidus/1-102                      ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102520|Rhantus_cicurus/1-102                      ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
consensus                                                                     STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA

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157102474|Bidessus_goudotii/1-102                  ..................................  102
157102478|Fontidessus_toboganens/1-102              ..................................  102
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157102486|Clypeodytes_meridional/1-102               ..................................  102
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157102506|Carabdytes_upin/1-102                      ..................................  102
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157102514|Meladema_coriacea/1-102                    ..................................  102
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157102518|Rhantus_calidus/1-102                      ..................................  102
157102520|Rhantus_cicurus/1-102                      ..................................  102
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102522|Rhantus_grapii/1-102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102524|Rhantus_suturalis/1-102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102526|Aglymbus_gestroi/1-102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102528|Copelatus_sp./1-102                                                                                                                                                                                                                                                                                                                                
157102530|Lacconectus_sp./1-102                                                                                                                                                                                                                                                                                
157102532|Coptotomus_interrogatu/1-102                                                                                                                                                                                                                                                                                
157102534|Deronectes_abnormicoll/1-102                                                                                                                                                                                                                                                                                
157102536|Deronectes_angusi/1-102                                                                                                                                                                                                                                                                                
157102540|Deronectes_depressicol/1-102                                                                                                                                                                                                                                                                                
157102542|Deronectes_ferrugineus/1-102                                                                                                                                                                                                                                                                                
157102546|Deronectes_persicus/1-102                                                                                                                                                                                                                                                                                
157102548|Deronectes_theryi/1-102                                                                                                                                                                                                                                                                                
157102550|Deronectes_youngi/1-102                                                                                                                                                                                                                                                                                
157102552|Nebrioporus_baeticus/1-102                                                                                                                                                                                                                                                                                
157102554|Nebrioporus_carinatus/1-102                                                                                                                                                                                                                                                                                
157102556|Nebrioporus_turca/1-102                                                                                                                                                                                                                                                                                
157102558|Oreodytes_congruus/1-102                                                                                                                                                                                                                                                                                
157102560|Oreodytes_crassulus/1-102                                                                                                                                                                                                                                                                                
157102562|Oreodytes_davisii/1-102                                                                                                                                                                                                                                                                                
157102564|Oreodytes_natrix/1-102                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102522|Rhantus_grapii/1-102                                                                                                                                                                                                                                                                                
157102524|Rhantus_suturalis/1-102                                                                                                                                                                                                                                                                                
157102526|Aglymbus_gestroi/1-102                                                                                                                                                                                                                                                                                
157102528|Copelatus_sp./1-102                                                                                                                                                                                                                                                                                
157102530|Lacconectus_sp./1-102                                                                                                                                                                                                                                                                                
157102532|Coptotomus_interrogatu/1-102                                                                                                                                                                                                                                                                                
157102534|Deronectes_abnormicoll/1-102                                                                                                                                                                                                                                                                                
157102536|Deronectes_angusi/1-102                                                                                                                                                                                                                                                                                
157102540|Deronectes_depressicol/1-102                                                                                                                                                                                                                                                                                
157102542|Deronectes_ferrugineus/1-102                                                                                                                                                                                                                                                                                
157102546|Deronectes_persicus/1-102                                                                                                                                                                                                                                                                                
157102548|Deronectes_theryi/1-102                                                                                                                                                                                                                                                                                
157102550|Deronectes_youngi/1-102                                                                                                                                                                                                                                                                                
157102552|Nebrioporus_baeticus/1-102                                                                                                                                                                                                                                                                                
157102554|Nebrioporus_carinatus/1-102                                                                                                                                                                                                                                                                                
157102556|Nebrioporus_turca/1-102                                                                                                                                                                                                                                                                                
157102558|Oreodytes_congruus/1-102                                                                                                                                                                                                                                                                                
157102560|Oreodytes_crassulus/1-102                                                                                                                                                                                                                                                                                
157102562|Oreodytes_davisii/1-102                                                                                                                                                                                                                                                                                
157102564|Oreodytes_natrix/1-102                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102568|Oreodytes_quadrimacula/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102572|Scarodytes_halensis/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102574|Stictotarsus_bertrandi/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102586|Acilius_sulcatus/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102590|Cybister_lateralimargi/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102592|Cybister_sugillatus/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102594|Cybister_tripunctatus/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102598|Dytiscus_latissimus/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
239579913|Gnomulus_sp./1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXXAKR   109
196481242|Leptophlebiidae_sp./1-112   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   112
228205128|Bellamya_unicolor/1-112   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   112
150247795|Eomantis_guttatipennis/1-109   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   109
196481312|Paraleptophlebia_volit/1-109   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   109
196481314|Paraleptophlebia_westo/1-109   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   109
121296215|Pseudocreobotra_wahlbe/1-108   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........   108
161376234|Nanonemoura_wahkeena/1-108   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........   108
196481246|Radima_sp./1-108   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........   108
47498314|Phyllophaga_sp./1-104   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........   104
283857405|Chloropelix_sp./1-104   ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT.........   104
257783563|Pomacea_lineata/1-102   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFED..........   102
consensus                                             ******  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDT****

logo

157102568|Oreodytes_quadrimacula/1-102   ..................................   102
157102572|Scarodytes_halensis/1-102   ..................................   102
157102574|Stictotarsus_bertrandi/1-102   ..................................   102
157102586|Acilius_sulcatus/1-102   ..................................   102
157102590|Cybister_lateralimargi/1-102   ..................................   102
157102592|Cybister_sugillatus/1-102   ..................................   102
157102594|Cybister_tripunctatus/1-102   ..................................   102
157102598|Dytiscus_latissimus/1-102   ..................................   102
239579913|Gnomulus_sp./1-109   ..................................   109
196481242|Leptophlebiidae_sp./1-112   ..................................   112
228205128|Bellamya_unicolor/1-112   ..................................   112
150247795|Eomantis_guttatipennis/1-109   ..................................   109
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196481314|Paraleptophlebia_westo/1-109   ..................................   109
121296215|Pseudocreobotra_wahlbe/1-108   ..................................   108
161376234|Nanonemoura_wahkeena/1-108   ..................................   108
196481246|Radima_sp./1-108   ..................................   108
47498314|Phyllophaga_sp./1-104   ..................................   104
283857405|Chloropelix_sp./1-104   ..................................   104
257783563|Pomacea_lineata/1-102   ..................................   102
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300248333|Aeneolamia_albofasciat/1-105   ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   105
188037214|Sepsis_neocynipsea/1-108       ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   108
283857553|Taperinha_adspersa/1-108        ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   108
283857485|Loralia_sp./1-107              ....................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLC......   107
257783595|Pomacea_diffusa/1-104           ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   104
45545292|Cliomantis_cornuta/1-102         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   102
306975362|Selenops_aissus/1-102           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   102
306975570|Selenops_sp./1-102              ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   102
30725208|Phascolion_strombus/1-101        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   101
157673883|Micrathena_gracilis/1-101       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   101
224814434|Chitoniscus_feejeeanus/1-101    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   101
262178690|Selenops_insularis/1-101        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   101
262178878|Selenops_lindborgi/1-101        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   101
262179178|Selenops_micropalpus/1-101      ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   101
290465469|Micrarchus_hystriculeu/1-101    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   101
290750973|Fissurella_barbadensis/1-101    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   101
300248363|Maxantonia_quadrigutta/1-101    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   101
300393561|Babakina_indopacifica/1-101     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........   101
300248413|Iphirhina_quota/1-103           ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   103
196481330|Neochoroterpes_oklahom/1-109    ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......   109
consensus                                                          RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN
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logo

300248333|Aeneolamia_albofasciat/1-105   ..................................   105
188037214|Sepsis_neocynipsea/1-108       ..................................   108
283857553|Taperinha_adspersa/1-108        ..................................   108
283857485|Loralia_sp./1-107              ..................................   107
257783595|Pomacea_diffusa/1-104           ..................................   104
45545292|Cliomantis_cornuta/1-102         ..................................   102
306975362|Selenops_aissus/1-102           ..................................   102
306975570|Selenops_sp./1-102              ..................................   102
30725208|Phascolion_strombus/1-101        ..................................   101
157673883|Micrathena_gracilis/1-101       ..................................   101
224814434|Chitoniscus_feejeeanus/1-101    ..................................   101
262178690|Selenops_insularis/1-101        ..................................   101
262178878|Selenops_lindborgi/1-101        ..................................   101
262179178|Selenops_micropalpus/1-101      ..................................   101
290465469|Micrarchus_hystriculeu/1-101    ..................................   101
290750973|Fissurella_barbadensis/1-101    ..................................   101
300248363|Maxantonia_quadrigutta/1-101    ..................................   101
300393561|Babakina_indopacifica/1-101     ..................................   101
300248413|Iphirhina_quota/1-103           ..................................   103
196481330|Neochoroterpes_oklahom/1-109    ..................................   109
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
126165781|Mintonia_ramipalpis/1-103      .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTN........ 103
53828113|Tettigarcta_crinita/1-106       .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA..... 106
262068535|Notholepthyphantes_aus/1-109  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKR 109
257783318|Scutigera_coleoptrata/1-109   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKR 109
239579921|Gnomulus_sp./1-109             .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKR 109
239579915|Caenoncopus_sp./1-109           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKR 109
157783417|Steleops_sp./1-109              .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKR 109
98374197|Allobates_femoralis/1-109       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKR 109
90184988|Rana_sylvatica/1-109            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKR 109
70609204|Leiognathus_sp./1-110            .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIXAKR 110
300248453|Locris_rubra/1-109             ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI.... 109
109134712|Rhynchomitra_microrhin/1-106   .....................TARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA..... 106
239736583|Proboscidoplocia_sp./1-105     .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA..... 105
300248357|Catrimania_semivitrea/1-105    .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA..... 105
164605120|Anatoma_sp./1-104               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA..... 104
164605122|Macroschisma_dilatata/1-104     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA..... 104
164605124|Emarginula_variegata/1-104      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA..... 104
164605126|Rimula_exquisita/1-104          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA..... 104
164605128|Pseudorimula_sp./1-104          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA..... 104
164605130|Homalopoma_granuliferu/1-104   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA..... 104
consensus                                                    RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA

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126165781|Mintonia_ramipalpis/1-103      ..............................  103
53828113|Tettigarcta_crinita/1-106       ..............................  106
262068535|Notholepthyphantes_aus/1-109   ..............................  109
257783318|Scutigera_coleoptrata/1-109    ..............................  109
239579921|Gnomulus_sp./1-109             ..............................  109
239579915|Caenoncopus_sp./1-109           ..............................  109
157783417|Steleops_sp./1-109              ..............................  109
98374197|Allobates_femoralis/1-109       ..............................  109
90184988|Rana_sylvatica/1-109            ..............................  109
70609204|Leiognathus_sp./1-110            ..............................  110
300248453|Locris_rubra/1-109             ..............................  109
109134712|Rhynchomitra_microrhin/1-106   ..............................  106
239736583|Proboscidoplocia_sp./1-105     ..............................  105
300248357|Catrimania_semivitrea/1-105    ..............................  105
164605120|Anatoma_sp./1-104               ..............................  104
164605122|Macroschisma_dilatata/1-104     ..............................  104
164605124|Emarginula_variegata/1-104      ..............................  104
164605126|Rimula_exquisita/1-104          ..............................  104
164605128|Pseudorimula_sp./1-104          ..............................  104
164605130|Homalopoma_granuliferu/1-104   ..............................  104
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
164605132|Neocollonia_pilula/1-104      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605134|Tricolia_variabilis/1-104      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605136|Liotina_semiclathratul/1-104   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605138|Margarites_olivaceus/1-104    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605140|Trochus_maculatus/1-104        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605142|Calliostoma_sakashitai/1-104   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605144|Minolia_punctata/1-104         ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605146|Umbonium_moniliferum/1-104     ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605148|Agathodonta_nortoni/1-104      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605150|Calliotropis_pagodifor/1-104   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605152|Calliotropis_chalkeie/1-104    ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605154|Ginebis_argenteonitens/1-104   ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605156|Granata_lyrata/1-104            ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605158|Turcica_coreensis/1-104        ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605160|Cataegis_sp./1-104             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605162|Bathyxylophila_sp./1-104       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605164|Bathyxylophila_sp./1-104       ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605166|Bruceiella_globulus/1-104      ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605168|Bruceiella_sp./1-104           ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605170|Conradia_sp./1-104             ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
consensus                                                       RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA

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164605132|Neocollonia_pilula/1-104      ..................................  104
164605134|Tricolia_variabilis/1-104      ..................................  104
164605136|Liotina_semiclathratul/1-104   ..................................  104
164605138|Margarites_olivaceus/1-104    ..................................  104
164605140|Trochus_maculatus/1-104        ..................................  104
164605142|Calliostoma_sakashitai/1-104   ..................................  104
164605144|Minolia_punctata/1-104         ..................................  104
164605146|Umbonium_moniliferum/1-104     ..................................  104
164605148|Agathodonta_nortoni/1-104      ..................................  104
164605150|Calliotropis_pagodifor/1-104   ..................................  104
164605152|Calliotropis_chalkeie/1-104    ..................................  104
164605154|Ginebis_argenteonitens/1-104   ..................................  104
164605156|Granata_lyrata/1-104            ..................................  104
164605158|Turcica_coreensis/1-104        ..................................  104
164605160|Cataegis_sp./1-104             ..................................  104
164605162|Bathyxylophila_sp./1-104       ..................................  104
164605164|Bathyxylophila_sp./1-104       ..................................  104
164605166|Bruceiella_globulus/1-104      ..................................  104
164605168|Bruceiella_sp./1-104           ..................................  104
164605170|Conradia_sp./1-104             ..................................  104
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
164605172|Dillwynella_planorbis/1-104      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605174|Lodderena_sp./1-104               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605176|Munditiella_ammonocera/1-104      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
109159214|Paradiplogrammus_baird/1-110      ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIQAKR  110
164605178|Cirsonella_sp./1-104              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
47498380|Battigrassiella_wheeler/1-108     ...................KQAARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  108
164605180|Ventsia_tricarinata/1-104          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605182|Xyloskenea_sp./1-104              .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
70673286|Venerupis_philippinarum/1-105     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  105
106896138|Strombus_dentatus/1-105          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  105
158346080|Pheidole_sp./1-105               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  105
158346118|Pheidole_tepicana/1-105           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  105
219524087|Penaeus_sp./1-105                 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  105
255934522|Camelomantis_moultoni/1-105      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  105
262178720|Selenops_insularis/1-105          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  105
262179304|Selenops_sp./1-105               .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  105
264687475|Nabokovia_cuzquenha/1-105         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  105
300792744|Melampus_coffeus/1-105            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  105
300792760|Melampus_bidentatus/1-105         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  105
300792798|Melampus_bidentatus/1-105         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  105
consensus                                   RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA*

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164605172|Dillwynella_planorbis/1-104      ..................................  104
164605174|Lodderena_sp./1-104               ..................................  104
164605176|Munditiella_ammonocera/1-104      ..................................  104
109159214|Paradiplogrammus_baird/1-110      ..................................  110
164605178|Cirsonella_sp./1-104              ..................................  104
47498380|Battigrassiella_wheeler/1-108     ..................................  108
164605180|Ventsia_tricarinata/1-104          ..................................  104
164605182|Xyloskenea_sp./1-104              ..................................  104
70673286|Venerupis_philippinarum/1-105     ..................................  105
106896138|Strombus_dentatus/1-105          ..................................  105
158346080|Pheidole_sp./1-105               ..................................  105
158346118|Pheidole_tepicana/1-105           ..................................  105
219524087|Penaeus_sp./1-105                 ..................................  105
255934522|Camelomantis_moultoni/1-105      ..................................  105
262178720|Selenops_insularis/1-105          ..................................  105
262179304|Selenops_sp./1-105               ..................................  105
264687475|Nabokovia_cuzquenha/1-105         ..................................  105
300792744|Melampus_coffeus/1-105            ..................................  105
300792760|Melampus_bidentatus/1-105         ..................................  105
300792798|Melampus_bidentatus/1-105         ..................................  105
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
300792848|Melampus_bidentatus/1-105     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....  105
164605184|Fluxinella_sp./1-104           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605186|Hadroconus_sp./1-104           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605188|Seguenzia_sp./1-104            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605190|Seguenzia_sp./1-104            .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605192|Notocrater_pustulosa/1-104     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605194|Pseudococculinidae_sp./1-104   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605196|Pseudococculinidae_sp./1-104   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605198|Adeuomphalus_sp./1-104         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605200|Leptogyropsis_inflata/1-104    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
164605202|Coccopigya_punctoradia/1-104   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
218563397|Leptogyra_inflata/1-104        .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
218563399|Lacunoides_sp./1-104           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
218563401|Peltospiridae_sp./1-104         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
218563403|Peltospiridae_sp./1-104         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
218563405|Melanodrymia_aurantiac/1-104   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
218563409|Pachydermia_laevis/1-104       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
158346170|Procryptocerus_batesi/1-107    .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHX..  107
240155933|Paravandellia_oxyptera/1-104   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
262178772|Selenops_insularis/1-104       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  104
consensus                                                      RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA
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logo

300792848|Melampus_bidentatus/1-105     ..............................  105
164605184|Fluxinella_sp./1-104           ..............................  104
164605186|Hadroconus_sp./1-104           ..............................  104
164605188|Seguenzia_sp./1-104            ..............................  104
164605190|Seguenzia_sp./1-104            ..............................  104
164605192|Notocrater_pustulosa/1-104     ..............................  104
164605194|Pseudococculinidae_sp./1-104   ..............................  104
164605196|Pseudococculinidae_sp./1-104   ..............................  104
164605198|Adeuomphalus_sp./1-104         ..............................  104
164605200|Leptogyropsis_inflata/1-104    ..............................  104
164605202|Coccopigya_punctoradia/1-104   ..............................  104
218563397|Leptogyra_inflata/1-104        ..............................  104
218563399|Lacunoides_sp./1-104           ..............................  104
218563401|Peltospiridae_sp./1-104         ..............................  104
218563403|Peltospiridae_sp./1-104         ..............................  104
218563405|Melanodrymia_aurantiac/1-104   ..............................  104
218563409|Pachydermia_laevis/1-104       ..............................  104
158346170|Procryptocerus_batesi/1-107    ..............................  107
240155933|Paravandellia_oxyptera/1-104   ..............................  104
262178772|Selenops_insularis/1-104       ..............................  104
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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262179312|Selenops_sp./1-104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
53828071|Clastoptera_proteus/1-107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
53828089|Clastoptera_brunnea/1-107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158346002|Pheidole_obscurithorax/1-106                                                                                                                                                
158346096|Pheidole_sp./1-106                                                                                                                                
259130683|Prodaticus_bowringii/1-106                                                                                                                                
259130685|Prodaticus_bivittatus/1-106                                                                                                                                
259130687|Prodaticus_caffer/1-106                                                                                                                                
259130689|Hydaticus_cinctipennis/1-106                                                                                                                                
259130693|Prodaticus_capicola/1-106                                                                                                                                
259130695|Prodaticus_dineutoides/1-106                                                                                                                                
259130699|Prodaticus_exclamation/1-106                                                                                                                                
259130701|Prodaticus_fabricii/1-106                                                                                                                                
259130703|Prodaticus_flavolineat/1-106                                                                                                                                
259130709|Prodaticus_humeralis/1-106                                                                                                                                
259130711|Prodaticus_leander/1-106                                                                                                                                
259130713|Prodaticus_litigiosus/1-106                                                                                                                                
259130715|Prodaticus_luczonicus/1-106                                                                                                                                
259130717|Prodaticus_lativittis/1-106                                                                                                                                
259130719|Prodaticus_major/1-106                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                
262179312|Selenops_sp./1-104                                                                                                                                                                                                                                                                                                                                                                                                                                                
53828071|Clastoptera_proteus/1-107                                                                                                                                                                                                                                                                                                                                                                                                                                
53828089|Clastoptera_brunnea/1-107                                                                                                                                                                                                                                                                                                                                                                                                                                
158346002|Pheidole_obscurithorax/1-106                                                                                                                                
158346096|Pheidole_sp./1-106                                                                                                                                
259130683|Prodaticus_bowringii/1-106                                                                                                                                
259130685|Prodaticus_bivittatus/1-106                                                                                                                                
259130687|Prodaticus_caffer/1-106                                                                                                                                
259130689|Hydaticus_cinctipennis/1-106                                                                                                                                
259130693|Prodaticus_capicola/1-106                                                                                                                                
259130695|Prodaticus_dineutoides/1-106                                                                                                                                
259130699|Prodaticus_exclamation/1-106                                                                                                                                
259130701|Prodaticus_fabricii/1-106                                                                                                                                
259130703|Prodaticus_flavolineat/1-106                                                                                                                                
259130709|Prodaticus_humeralis/1-106                                                                                                                                
259130711|Prodaticus_leander/1-106                                                                                                                                
259130713|Prodaticus_litigiosus/1-106                                                                                                                                
259130715|Prodaticus_luczonicus/1-106                                                                                                                                
259130717|Prodaticus_lativittis/1-106                                                                                                                                
259130719|Prodaticus_major/1-106                                                                                                                                
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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259130721|Prodaticus_matruelis/1-106      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...  106
259130723|Prodaticus_orissaensis/1-106   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...  106
259130727|Prodaticus_rhantoides/1-106   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...  106
259130729|Prodaticus_ricinus/1-106      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...  106
259130733|Prodaticus_rivanolis/1-106    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...  106
259130735|Prodaticus_satoi/1-106        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...  106
259130739|Prodaticus_speciosus/1-106    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...  106
259130741|Prodaticus_servillianu/1-106 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...  106
259130745|Prodaticus_transversal/1-106 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...  106
259130747|Prodaticus_ussheri/1-106     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...  106
259130755|Notaticus_fasciatus/1-106     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...  106
300248317|Aeneolamia_reducta/1-109     ...................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH...  109
157102600|Dytiscus_marginicollis/1-102 ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102602|Eretes_australis/1-102        ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102604|Eretes_griseus/1-102          ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102606|Graphoderus_cinereus/1-102    ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102608|Prodaticus_leander/1-102      ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102610|Prodaticus_transversal/1-102 ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102612|Hyderodes_schuckardi/1-102 ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102614|Megadytes_australis/1-102   ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
consensus                                                  **  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA**

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259130721|Prodaticus_matruelis/1-106      ..................................  106
259130723|Prodaticus_orissaensis/1-106   ..................................  106
259130727|Prodaticus_rhantoides/1-106    ..................................  106
259130729|Prodaticus_ricinus/1-106       ..................................  106
259130733|Prodaticus_rivanolis/1-106     ..................................  106
259130735|Prodaticus_satoi/1-106         ..................................  106
259130739|Prodaticus_speciosus/1-106     ..................................  106
259130741|Prodaticus_servillianu/1-106   ..................................  106
259130745|Prodaticus_transversal/1-106   ..................................  106
259130747|Prodaticus_ussheri/1-106       ..................................  106
259130755|Notaticus_fasciatus/1-106      ..................................  106
300248317|Aeneolamia_reducta/1-109       ..................................  109
157102600|Dytiscus_marginicollis/1-102   ..................................  102
157102602|Eretes_australis/1-102         ..................................  102
157102604|Eretes_griseus/1-102           ..................................  102
157102606|Graphoderus_cinereus/1-102     ..................................  102
157102608|Prodaticus_leander/1-102       ..................................  102
157102610|Prodaticus_transversal/1-102   ..................................  102
157102612|Hyderodes_schuckardi/1-102     ..................................  102
157102614|Megadytes_australis/1-102      ..................................  102
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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157102616|Megadytes_sp./1-102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102618|Megadytes_sp./1-102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102620|Onychohydrus_scutellar/1-102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102624|Rhantaticus_congestus/1-102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102628|Spencerhydrus_latecinc/1-102                                                                                                                                                
157102634|Graptodytes_aequalis/1-102                                                                                                
157102640|Metaporus_meridionalis/1-102                                                                
157102642|Porhydrus_lineatus/1-102                                                
157102646|Rhithrodytes_sexguttat/1-102                                
157102648|Stictonectes_epipleuri/1-102                                
157102650|Stictonectes_optatus/1-102                                
157102652|Neoporus_arizonicus/1-102                                
157102654|Heterosternuta_pulcher/1-102                                
157102656|Hydroporus_nigellus/1-102                                
157102658|Hydroporus_pilosus/1-102                                
157102660|Hydroporus_scalesianus/1-102                                
157102662|Hydroporus_vagepictus/1-102                                
157102664|Hydrocolus_sahlbergi/1-102                                
157102666|Neoporus_undulatus/1-102                                
157102668|Peschetius_toxophorus/1-102                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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157102616|Megadytes_sp./1-102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102618|Megadytes_sp./1-102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102620|Onychohydrus_scutellar/1-102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102624|Rhantaticus_congestus/1-102                                                                                                                                                                                                                                                                
157102628|Spencerhydrus_latecinc/1-102                                
157102634|Graptodytes_aequalis/1-102                                
157102640|Metaporus_meridionalis/1-102                                
157102642|Porhydrus_lineatus/1-102                                
157102646|Rhithrodytes_sexguttat/1-102                                
157102648|Stictonectes_epipleuri/1-102                                
157102650|Stictonectes_optatus/1-102                                
157102652|Neoporus_arizonicus/1-102                                
157102654|Heterosternuta_pulcher/1-102                                
157102656|Hydroporus_nigellus/1-102                                
157102658|Hydroporus_pilosus/1-102                                
157102660|Hydroporus_scalesianus/1-102                                
157102662|Hydroporus_vagepictus/1-102                                
157102664|Hydrocolus_sahlbergi/1-102                                
157102666|Neoporus_undulatus/1-102                                
157102668|Peschetius_toxophorus/1-102                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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157102670|Sanfilippodytes_termin/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102672|Suphrodytes_dorsalis/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102674|Herophydrus_nodieri/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102676|Herophydrus_obscurus/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102678|Herophydrus_musicus/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102680|Hygrotus_caspius/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
150248001|Yersinia_sp./1-125   ...............MARTKDTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAXXAKR   117
157102682|Hygrotus_confluens/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102684|Hygrotus_corpulentus/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102686|Hygrotus_impressopunct/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102688|Hygrotus_saginatus/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102690|Hygrotus_turbidus/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102694|Africophilus_sp./1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102704|Laccophilus_sp./1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102706|Laccophilus_sp./1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102708|Laccodytes_sp./1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102714|Philaccolus_cf./1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102716|Lancetes_nigriceps/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102718|Laccornis_kocae/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
157102720|Laccornellus_lugubris/1-102   ..........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....   102
consensus                               STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA

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157102670|Sanfilippodytes_termin/1-102   ..............................   102
157102672|Suphrodytes_dorsalis/1-102   ..............................   102
157102674|Herophydrus_nodieri/1-102   ..............................   102
157102676|Herophydrus_obscurus/1-102   ..............................   102
157102678|Herophydrus_musicus/1-102   ..............................   102
157102680|Hygrotus_caspius/1-102   ..............................   102
150248001|Yersinia_sp./1-125   VTIMPKDI......................   125
157102682|Hygrotus_confluens/1-102   ..............................   102
157102684|Hygrotus_corpulentus/1-102   ..............................   102
157102686|Hygrotus_impressopunct/1-102   ..............................   102
157102688|Hygrotus_saginatus/1-102   ..............................   102
157102690|Hygrotus_turbidus/1-102   ..............................   102
157102694|Africophilus_sp./1-102   ..............................   102
157102704|Laccophilus_sp./1-102   ..............................   102
157102706|Laccophilus_sp./1-102   ..............................   102
157102708|Laccodytes_sp./1-102   ..............................   102
157102714|Philaccolus_cf./1-102   ..............................   102
157102716|Lancetes_nigriceps/1-102   ..............................   102
157102718|Laccornis_kocae/1-102   ..............................   102
157102720|Laccornellus_lugubris/1-102   ..............................   102
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157102722|Batrachomatus_daemeli/1-102      .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102724|Batrachomatus_wingii/1-102      .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102732|Aspidytes_niobe/1-102           .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102734|Pachydrus_cf./1-102             .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102738|Derovatellus_peruanus/1-102     .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102740|Vatellus_sp./1-102              .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102742|Platynectes_sp./1-102           .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102744|Platynectes_sp./1-102           .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102746|Liodessus_sp./1-102             .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102748|Necterosoma_penicillat/1-102    .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102750|Agaporomorphus_knischi/1-102   .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102752|Laccodytes_sp./1-102            .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102754|Megadytes_sp./1-102             .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102756|Limbodessus_sp./1-102           .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102758|Limbodessus_compactus/1-102     .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102760|Copelatus_sp./1-102             .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102764|Papuadytes_sp./1-102            .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
157102766|Papuadytes_sp./1-102            .........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  102
124488567|Uvarus_peringueyi/1-101         .........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  101
157102576|Stictotarsus_falli/1-101        .........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....  101
consensus                                                         STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA

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157102722|Batrachomatus_daemeli/1-102      ..............................  102
157102724|Batrachomatus_wingii/1-102      ..............................  102
157102732|Aspidytes_niobe/1-102           ..............................  102
157102734|Pachydrus_cf./1-102             ..............................  102
157102738|Derovatellus_peruanus/1-102     ..............................  102
157102740|Vatellus_sp./1-102              ..............................  102
157102742|Platynectes_sp./1-102           ..............................  102
157102744|Platynectes_sp./1-102           ..............................  102
157102746|Liodessus_sp./1-102             ..............................  102
157102748|Necterosoma_penicillat/1-102    ..............................  102
157102750|Agaporomorphus_knischi/1-102   ..............................  102
157102752|Laccodytes_sp./1-102            ..............................  102
157102754|Megadytes_sp./1-102             ..............................  102
157102756|Limbodessus_sp./1-102           ..............................  102
157102758|Limbodessus_compactus/1-102     ..............................  102
157102760|Copelatus_sp./1-102             ..............................  102
157102764|Papuadytes_sp./1-102            ..............................  102
157102766|Papuadytes_sp./1-102            ..............................  102
124488567|Uvarus_peringueyi/1-101         ..............................  101
157102576|Stictotarsus_falli/1-101        ..............................  101
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
289536514|Mysmeninae_sp./1-109          .......................RM..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279795|Leucosyrinx_sp./1-109          .......................RM..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
160279793|Sibogasyrinx_sp./1-109          .......................RM..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
150247769|Thesprotia_graminis/1-125     ..............MARTKQTARM..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
119689973|Anelosimus_arizona/1-116       ...................KQTARM..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     113
157102698|Neptosternus_sp./1-101         ............................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....     101
46562286|Phyllodoce_sp./1-98             ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......      98
46562290|Phoronis_sp./1-98               ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......      98
224714980|Metanephrops_andamanic/1-98    ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......      98
224714982|Metanephrops_armatus/1-98      ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......      98
224714984|Metanephrops_sinensis/1-98     ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......      98
224714986|Metanephrops_formosanu/1-98    ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......      98
224714988|Metanephrops_mozambicu/1-98    ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......      98
224714990|Metanephrops_arafurens/1-98    ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......      98
224714992|Metanephrops_japonicus/1-98    ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......      98
224714994|Metanephrops_velutinus/1-98    ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......      98
224714996|Metanephrops_thomsoni/1-98     ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......      98
224715000|Metanephrops_boschmai/1-98     ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......      98
224715002|Homarus_gammarus/1-98          ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......      98
224715004|Acanthacaris_tenuimana/1-98    ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL.......      98
consensus                                                              GGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL

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289536514|Mysmeninae_sp./1-109          ..............................     109
160279795|Leucosyrinx_sp./1-109          ..............................     109
160279793|Sibogasyrinx_sp./1-109          ..............................     109
150247769|Thesprotia_graminis/1-125     VTIMPKDI......................     125
119689973|Anelosimus_arizona/1-116       VTI...........................     116
157102698|Neptosternus_sp./1-101         ..............................     101
46562286|Phyllodoce_sp./1-98             ..............................      98
46562290|Phoronis_sp./1-98               ..............................      98
224714980|Metanephrops_andamanic/1-98    ..............................      98
224714982|Metanephrops_armatus/1-98      ..............................      98
224714984|Metanephrops_sinensis/1-98     ..............................      98
224714986|Metanephrops_formosanu/1-98    ..............................      98
224714988|Metanephrops_mozambicu/1-98    ..............................      98
224714990|Metanephrops_arafurens/1-98    ..............................      98
224714992|Metanephrops_japonicus/1-98    ..............................      98
224714994|Metanephrops_velutinus/1-98    ..............................      98
224714996|Metanephrops_thomsoni/1-98     ..............................      98
224715000|Metanephrops_boschmai/1-98     ..............................      98
224715002|Homarus_gammarus/1-98          ..............................      98
224715004|Acanthacaris_tenuimana/1-98    ..............................      98
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
224715006|Metanephrops_sagamiens/1-98      ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL........   98
290918574|Pandalus_montagui/1-98             ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNL........   98
6010083|Entodinium_caudatum/1-134            ................TKQTARKQAIPAGKAPRKQVGNKA.ARKSA..P.A.MGGIKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREVAQQFKSDLRFQSTAVLALQEASESYLVGLFEDTNLCAIHAKR  116
6010043|Entodinium_caudatum/1-134            ................TKQTARKQAIPAGKAPRKQVGNKA.ARKSA..P.V.SSGIKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREVAQQFKSDLRFQSSAVLALQEASESYLVGLFEDTNLCAIHAKR  116
17552868|Caenorhabditis_elegans/1-127        ......................M..CPGGKAPRKQLATKA.ARKNA...  VVGAVKKPH.RFRPGTVALREIRRYQKSTDLLLRKLPFQRLVREIAQDVKQDLRFQSAAIQALQEASEYFLVGLFEDTNLCAIHAKR  108
50897719|Radulinus_asprellus/1-110           ......................ARK..SXAGKALRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGSVALREIRRDHKVHKLLIRKLPFQRLVRXIAQDFKTDXRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
66359274|Cryptosporidium_parvum/1-135        ..............MARTKQTARK..STGGKAPRKQLASKG.ARKSA..P.V.TGGVKKPR.RYRPGTVALREIRRFQRSTELLIRKLPFQRLVREIAQDFKTDLRFQSQAVMALQEAAEAYLVGLFEDTNLCAIHAHR  117
67616583|Cryptosporidium_hominis/1-135       ..............MARTKQTARK..STGGKAPRKQLASKG.ARKSA..P.V.TGGVKKPR.RYRPGTVALREIRRFQRSTELLIRKLPFQRLVREIAQDFKTDLRFQSQAVMALQEAAEAYLVGLFEDTNLCAIHAHR  117
209880257|Cryptosporidium_muris/1-135        ..............MARTKQTARK..STGGKAPRKQLASKG.ARKSA..P.V.TGGVKKPR.RYRPGTVALREIRRFQRSTELLIRKLPFQRLVREIAQDFKTDLRFQSQAVMALQEAAEAYLVGLFEDTNLCAIHAHR  117
54658641|Cryptosporidium_hominis/1-135       ..............MARTKQTARK..STGGKAPRKQLASKG.ARKSA..P.V.TGGVKKPR.RYRPGTVALREIRRFQRSTELLIRKLPFQRLVREIAQDFKTDLRFQSQAVMALQEAAEAYLVGLFEDTNLCAIHAHR  117
66357450|Cryptosporidium_parvum/1-148        ..ESEDNKANKVLLKMARTKQTARK..STGGKAPRKQLASKG.ARKSA..P.V.TGGVKKPR.RYRPGTVALREIRRYQRSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAHR  130
67624697|Cryptosporidium_hominis/1-135       ..............MARTKQTARK..STGGKAPRKQLASKG.ARKSA..P.V.TGGVKKPR.RYRPGTVALREIRRYQRSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAHR  117
209877973|Cryptosporidium_muris/1-135        ..............MARTKQTARK..STGGKAPRKQLASKG.ARKSA..P.V.TGGVKKPR.RYRPGTVALREIRRYQRSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAHR  117
54659853|Cryptosporidium_hominis/1-135       ..............MARTKQTARK..STGGKAPRKQLASKG.ARKSA..P.V.TGGVKKPR.RYRPGTVALREIRRYQRSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAHR  117
163638179|Dysdera_bandamae/1-109             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSXXXXXXXXXFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
163638183|Dysdera_calderensis/1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSXXXXXXXXXFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
556612|Plasmodium_falciparum/1-136            ..............MERTKQTERK..STGGKAPRKQLASKE.ERKSA..P.V.STGIKKPH.RYRPGTVALREIRKSQKSTDLLIRKLPFQRLVREIAQEYKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR  117
58199415|Chalinochromis_popelini/1-110       ......................ARX..STGGKAPRKXLATKX.ARKSA..P.A.TGGVKKPH.RYRXGTVALREIRRYQXSTELLIRKLXFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVELFEDTNLCAIXAKR  110
297302242|Macaca_mulatta/1-116               ..............MARTKQTARK..STGGKAPRKQLASKA.ARKST..P.S.TGGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREVAQDFKTDLRFQ.....................NTNLCAIHAKR   97
294897307|Perkinsus_marinus/1-136             ..............MARTKQTARK..STGGKAPRKQLASKA.ARKST..P.S.TGGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREVAQDFKTDLRFQTSAVMALQEAAEAYLVGLFEDTNLCAIHAKR  117
consensus                                          ********RK  **GGKAPRKQLA*K* ARKSA  P * TGG*KKP* RYRPGTVALREIRR*Q*ST*LLIRKLPFQRLVREIAQDFKTDLRFQS*AV*ALQEA*EAYLVGLFEDTNLCAIHA*R

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
224715006|Metanephrops_sagamiens/1-98      ..................................   98
290918574|Pandalus_montagui/1-98             ..................................   98
6010083|Entodinium_caudatum/1-134            VTIMPKDIQLARRIRGEK................  134
6010043|Entodinium_caudatum/1-134            VTIMPKDIQLARRIRGEK................  134
17552868|Caenorhabditis_elegans/1-127        VTIMPKDMQLARRIRGERN...............  127
50897719|Radulinus_asprellus/1-110           ..................................  110
66359274|Cryptosporidium_parvum/1-135        VTIMPKDIQLARRIRGER................  135
67616583|Cryptosporidium_hominis/1-135       VTIMPKDIQLARRIRGER................  135
209880257|Cryptosporidium_muris/1-135        VTIMPKDIQLARRIRGER................  135
54658641|Cryptosporidium_hominis/1-135       VTIMPKDIQLARRIRGER................  135
66357450|Cryptosporidium_parvum/1-148        VTIMPKDVQLARRIRGER................  148
67624697|Cryptosporidium_hominis/1-135       VTIMPKDVQLARRIRGER................  135
209877973|Cryptosporidium_muris/1-135        VTIMPKDVQLARRIRGER................  135
54659853|Cryptosporidium_hominis/1-135       VTIMPKDVQLARRIRGER................  135
163638179|Dysdera_bandamae/1-109             ..................................  109
163638183|Dysdera_calderensis/1-109           ..................................  109
556612|Plasmodium_falciparum/1-136            VTIILKDIQLARRIRGERS...............  136
58199415|Chalinochromis_popelini/1-110       ..................................  110
297302242|Macaca_mulatta/1-116               VTIMPKDMQLARRIRGERS...............  116
294897307|Perkinsus_marinus/1-136             VTIMPKDMQLARRIRGERS...............  136
consensus                                     ******************
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
294878494|Perkinsus_marinus/1-121      ..............................APRKQLASKA.ARKST..P.S.TGGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREVAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR   102
294869100|Perkinsus_marinus/1-112      ...........................................A.ARKST..P.S.TGGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREVAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR    93
294894094|Perkinsus_marinus/1-101      ..............MARTKQTARK..STGGKAPRKQLASKA.ARKST..P.S.TGGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREVAQDFKTDLRFQSSAVMALQEAAEAYL................   101
109148993|Macaca_mulatta/1-136         ..............MARTKQTARK..STGGKAPRKQLASKA.ARKST..P.S.TGGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREVAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR   117
294887053|Perkinsus_marinus/1-136      ..............MARTKQTARK..STGGKAPRKQLASKA.ARKST..P.S.TGGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREVAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR   117
55741125|Cyphophthalmus_ere/1-109      ......................RK..STGGXAPXKQLATKA.ARKSA..P.A.TGGVKXPH.RYRPGTVALREIRRYQKSTELLIRKXPFQRXVREIAQDFKTDLRFXSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
55741127|Cyphophthalmus_ere/1-109      ......................RK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKXPH.RYRPGTVALREIRRYQKSTELLIRKXPFQRXVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
58199299|Monocirrhus_polyacanthu/1-110 ......................VRN..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRXGTVALXEIRRYQXSTEXLIRKLXFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAXR   110
82594554|Plasmodium_yoelii/1-136      ..............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.STGIKKPH.RYRPGTVALREIRKFQKSTDLLIRKLPFQRLVREIAQEYKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
86171194|Plasmodium_falciparum/1-136  ..............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.STGIKKPH.RYRPGTVALREIRKFQKSTDLLIRKLPFQRLVREIAQEYKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
156100997|Plasmodium_vivax/1-136      ..............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.STGIKKPH.RYRPGTVALREIRKFQKSTDLLIRKLPFQRLVREIAQEYKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
23480494|Plasmodium_yoelii/1-136      ..............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.STGIKKPH.RYRPGTVALREIRKFQKSTDLLIRKLPFQRLVREIAQEYKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
148805066|Plasmodium_vivax/1-136      ..............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.STGIKKPH.RYRPGTVALREIRKFQKSTDLLIRKLPFQRLVREIAQEYKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
221057978|Plasmodium_knowlesi/1-136   ..............MARTKQTARK..SPGGKAPRKQLASKA.ARKSA..P.V.STGIKKPH.RYRPGTVALREIRKFQKSTDLLIRKLPFQRLVREIAQEYKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
50897669|Peristedion_gracile/1-109    ......................RK..STGGKAPXKQLATKA.ARKSA..P.X.TGGVKKPH.RYRPXTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQXXAVMALQESSEAYLVGLFEDTNLCAIHAKR   109
194173323|Aoraki_denticulata/1-109    ......................RX..STGGKAPRKQLATXA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKXPFQRLVREIAXDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNXCAIHAKR   109
194173331|Aoraki_denticulata/1-109    ......................RK..STGGKAPRKQLATXA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKXPFQRLVREIAXDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
4883738|Mecistocephalus_sp./1-93      ...........................PRXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSXELLIXKLPFQRLVREIAQDFKTDLRYQSSAVMALQEASEAYLVGLFEDTN........    93
22476750|Toxoplasma_gondii/1-136      ..............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.M.SGGIKKPH.RYRPGTVALREIRKFQKSTDLLIRKLPFQRLVREIAQDFKTDLRFQSQAILALQEAAEAYLVGLFEDTNLCAIHAKR   117
237842633|Toxoplasma_gondii/1-115      ..............MARTKQTARK..ST..........................GGIKKPH.RYRPGTVALREIRKFQKSTDLLIRKLPFQRLVREIAQDFKTDLRFQSQAILALQEAAEAYLVGLFEDTNLCAIHAKR    96
consensus                                           ********R*  STGG*AP*KQLA*KA ARKS*  P   **G*KKPH RYRPGTVALREIR**QKST*LLIRKLPFQRLVRE*AQ**KTDLRFQS*AV*ALQEA*EAYLVGLFEDTNLCAIHAKR
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logo                                  VTIMPKDMQLARRIRGERS

294878494|Perkinsus_marinus/1-121     VTIMPKDMQLARRIRGERS.............   121
294869100|Perkinsus_marinus/1-112     VTIMPKDMQLARRIRGERS.............   112
294894094|Perkinsus_marinus/1-101     ...............................   101
109148993|Macaca_mulatta/1-136        VTIMPKDMQLARRIRGERS.............   136
294887053|Perkinsus_marinus/1-136     VTIMPKDMQLARRIRGERS.............   136
55741125|Cyphophthalmus_ere/1-109     ...............................   109
55741127|Cyphophthalmus_ere/1-109     ...............................   109
58199299|Monocirrhus_polyacanthu/1-110 ..............................   110
82594554|Plasmodium_yoelii/1-136      VTIMPKDIQLARRIRGERS.............   136
86171194|Plasmodium_falciparum/1-136  VTIMPKDIQLARRIRGERS.............   136
156100997|Plasmodium_vivax/1-136      VTIMPKDIQLARRIRGERS.............   136
23480494|Plasmodium_yoelii/1-136      VTIMPKDIQLARRIRGERS.............   136
148805066|Plasmodium_vivax/1-136      VTIMPKDIQLARRIRGERS.............   136
221057978|Plasmodium_knowlesi/1-136   VTIMPKDIQLARRIRGERS.............   136
50897669|Peristedion_gracile/1-109    ...............................   109
194173323|Aoraki_denticulata/1-109    ...............................   109
194173331|Aoraki_denticulata/1-109    ...............................   109
4883738|Mecistocephalus_sp./1-93      ...............................    93
22476750|Toxoplasma_gondii/1-136      VTIMPKDIQLARRIRGERS.............   136
237842633|Toxoplasma_gondii/1-115     VTIMPKDIQLARRIRGERS.............   115
consensus                             ******************
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo

221485580|Toxoplasma_gondii/1-115      ...............MARTKQTARK..ST............................GGIKKPH.RYRPGTVALREIRKFQKSTDLLIRKLPFQRLVREIAQDFKTDLRFQSQAILALQEAAEAYLVGLFEDTNLCAIHAKR     96
221503041|Toxoplasma_gondii/1-115      ...............MARTKQTARK..ST............................GGIKKPH.RYRPGTVALREIRKFQKSTDLLIRKLPFQRLVREIAQDFKTDLRFQSQAILALQEAAEAYLVGLFEDTNLCAIHAKR     96
82541094|Plasmodium_yoelii/1-136       ...............MARTKQTARK..STAGKAPRKQLASKA.ARKSA..P.I.SAGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQDYKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR    117
86170831|Plasmodium_falciparum/1-136   ...............MARTKQTARK..STAGKAPRKQLASKA.ARKSA..P.I.SAGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQDYKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR    117
156100861|Plasmodium_vivax/1-136       ...............MARTKQTARK..STAGKAPRKQLASKA.ARKSA..P.I.SAGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQDYKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR    117
23479592|Plasmodium_yoelii/1-136       ...............MARTKQTARK..STAGKAPRKQLASKA.ARKSA..P.I.SAGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQDYKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR    117
148804998|Plasmodium_vivax/1-136       ...............MARTKQTARK..STAGKAPRKQLASKA.ARKSA..P.I.SAGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQDYKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR    117
221058122|Plasmodium_knowlesi/1-136    ...............MARTKQTARK..STAGKAPRKQLASKA.ARKSA..P.M.SAGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQDYKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR    117
13919643|Trichinella_spiralis/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.AGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREVAQDYKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR    117
50897638|Scorpaenopsis_macrochir/1-105 ..........................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.XYRXGTVALREIRRYQKSTELLIRKLPFQRLVRDIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    105
148372405|Mycteroperca_olfax/1-110    ......................ARK..SXGGKAPRKQLATZA.ARKSA..P.A.TGGVKKPH.RYRPGXVALREIRRYQKSTXLLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    110
148372401|Epinephelus_rivulatus/1-110  ......................ARK..STGGKAPXXQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTXLLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    110
19880141|Eimeria_tenella/1-136         ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.AGGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR    117
237831939|Toxoplasma_gondii/1-136      ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.M.SGGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR    117
28192620|Toxoplasma_gondii/1-136       ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.M.SGGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR    117
221506572|Toxoplasma_gondii/1-136      ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.M.SGGIKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR    117
156084460|Babesia_bovis/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.V.AGGIKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR    117
154796965|Babesia_bovis/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.V.AGGIKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR    117
158346066|Pheidole_soritis/1-107       ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYXPGTVALREIRRYQXSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNXCAXHA..    107
68012880|Epinephelus_mystacinus/1-118 ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRXGTVALREIRXYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    113
consensus                              ****KQTARK  ST*GKAPRKQLA*KA ARKSA  P * **G*KKPH RYRPGTVALREIRRYQKST*LLIRKLPFQRLVREIAQD*KTDLRFQSSAV*ALQEA*EAYLVGLFEDTNLCAIHAKR

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221485580|Toxoplasma_gondii/1-115      VTIMPKDIQLARRIRGERS..............    115
221503041|Toxoplasma_gondii/1-115      VTIMPKDIQLARRIRGERS..............    115
82541094|Plasmodium_yoelii/1-136       VTIMPKDIQLARRIRGERS..............    136
86170831|Plasmodium_falciparum/1-136   VTIMPKDIQLARRIRGERS..............    136
156100861|Plasmodium_vivax/1-136       VTIMPKDIQLARRIRGERS..............    136
23479592|Plasmodium_yoelii/1-136       VTIMPKDIQLARRIRGERS..............    136
148804998|Plasmodium_vivax/1-136       VTIMPKDIQLARRIRGERS..............    136
221058122|Plasmodium_knowlesi/1-136    VTIMPKDIQLARRIRGERS..............    136
13919643|Trichinella_spiralis/1-136    VTIMPKDIQLARRIRGERA..............    136
50897638|Scorpaenopsis_macrochir/1-105 ................................    105
148372405|Mycteroperca_olfax/1-110     ................................    110
148372401|Epinephelus_rivulatus/1-110  ................................    110
19880141|Eimeria_tenella/1-136         VTIMPKDIQLARRIRGERS..............    136
237831939|Toxoplasma_gondii/1-136      VTIMPKDIQLARRIRGERS..............    136
28192620|Toxoplasma_gondii/1-136       VTIMPKDIQLARRIRGERS..............    136
221506572|Toxoplasma_gondii/1-136      VTIMPKDIQLARRIRGERS..............    136
156084460|Babesia_bovis/1-136          VTIMPKDIQLARRIRGERA..............    136
154796965|Babesia_bovis/1-136          VTIMPKDIQLARRIRGERA..............    136
158346066|Pheidole_soritis/1-107       ................................    107
68012880|Epinephelus_mystacinus/1-118 VTIMP............................    118
consensus                              VTIMP**************
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
223403455|Gertschanapis_shantzi/1-93      ..........................................A.ARKSA..P.A.TGGVKKPH.RYRPGTVALRDIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    93
71726133|Creaseria_morleyi/1-95          ...................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSSELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAI....    95
90184524|Uraeotyphlus_narayani/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSHELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
109159293|Synodus_variegatus/1-110       .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALRDIRRYQKSXELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
90184888|Bufo_granulosus/1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSXELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
90184964|Bufo_guttatus/1-109             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSXELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
208479668|Biotodoma_wavrini/1-101        ...............................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSXELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   101
6686276|Caenorhabditis_elegans/1-136     ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.SGGVKKPH.RYRPGTVALREIRRYQKSTELLIRRAPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
17532993|Caenorhabditis_elegans/1-136    ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.SGGVKKPH.RYRPGTVALREIRRYQKSTELLIRRAPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR   117
62899612|Carcinus_maenas/1-102           ..............MAXTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASRGLX4.................   102
50897733|Nautichthys_pribilovius/1-107   ...........................STGGKAPGKQLATKA.ARKSA..P.A.TGGVKKPX.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   107
50897689|Zaniolepis_frenatus/1-110       ......................AVR..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVRRIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897783|Bathymaster_signatus/1-110      .....................ARK..STGGKSPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALXEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
158346150|Aphaenogaster_sp./1-107        ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRKLPFQRLVREXAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158345938|Pheidole_fimbriata/1-107       ......................RK..STGGKAPRKQLATXA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
158346072|Pheidole_sp./1-107             ......................RK..STGGKAPRKQLATXA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..   107
296125017|Badonnelia_titei/1-110         ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
94014622|Copelatus_sp./1-109             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
94014632|Copelatus_sp./1-109             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
94014716|Copelatus_sp./1-109             ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                                                        **  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQ*S*ELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA**

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
223403455|Gertschanapis_shantzi/1-93      ..............................    93
71726133|Creaseria_morleyi/1-95          ..............................    95
90184524|Uraeotyphlus_narayani/1-109     ..............................   109
109159293|Synodus_variegatus/1-110       ..............................   110
90184888|Bufo_granulosus/1-109           ..............................   109
90184964|Bufo_guttatus/1-109             ..............................   109
208479668|Biotodoma_wavrini/1-101        ..............................   101
6686276|Caenorhabditis_elegans/1-136     VTIMPKDIQLARRIRGERA...........   136
17532993|Caenorhabditis_elegans/1-136    VTIMPKDIQLARRIRGERA...........   136
62899612|Carcinus_maenas/1-102           ..............................   102
50897733|Nautichthys_pribilovius/1-107   ..............................   107
50897689|Zaniolepis_frenatus/1-110       ..............................   110
50897783|Bathymaster_signatus/1-110      ..............................   110
158346150|Aphaenogaster_sp./1-107        ..............................   107
158345938|Pheidole_fimbriata/1-107       ..............................   107
158346072|Pheidole_sp./1-107             ..............................   107
296125017|Badonnelia_titei/1-110         V.............................   110
94014622|Copelatus_sp./1-109             ..............................   109
94014632|Copelatus_sp./1-109             ..............................   109
94014716|Copelatus_sp./1-109             ..............................   109
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
98365363|Neopurcellia_florensis/1-109   .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
94014593|Copelatus_sp./1-108           .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.    108
157102730|Methles_cribratellus/1-102   ........................STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCA.....    102
68012882|Epinephelus_trimaculatu/1-120 .................PSRRPRK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKX   114
83655586|Austrognathia_sp./1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLVRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESAEAYLVGLFEDTNLCAIHAKR   109
296124995|Taeniostigma_elongatum/1-110 .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESAESYLVGLFEDTNLCAIHAKR   109
268554686|Caenorhabditis_briggsa/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.QGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESAEAYLVGLFEDTNLCAIHAKR   117
187038177|Caenorhabditis_briggsa/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.QGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESAEAYLVGLFEDTNLCAIHAKR   117
308450880|Caenorhabditis_remanei/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.SGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR   117
268536008|Caenorhabditis_briggsa/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.AGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESAEAYLVGLFEDTNLCAIHAKR   117
187034495|Caenorhabditis_briggsa/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.AGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESAEAYLVGLFEDTNLCAIHAKR   117
308494092|Caenorhabditis_remanei/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.AGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR   117
50897629|Pontinus_longispinis/1-110 .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
148372423|Tosana_niwae/1-110          .......................ARK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQXSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897787|Harpagifer_kerguelensis/1-110 .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVXEIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
109159042|Benthosema_glaciale/1-110   .......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESAEAYLVGLFEDTNLCAIHAKR   110
50897717|Myoxocephalus_polyacant/1-110 .......................ARK..STGGKAPRKQLATXA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897785|Lycodes_diapterus/1-110      .......................ARK..STGGKAPRKQLATXA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
68013014|Epinephelus_flavocaerul/1-114 .......................RK..STGGKAPRKQLXTKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   109
68012924|Epinephelus_radiatus/1-117  ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESXEAYLVXLFEDTNLCAIHAKR   112
consensus                                                  *RK  STGGKAPRKQLATKA.ARKSA..P.A.*GGVKKPH.RYRPGTVALREIRRYQ*STELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQE**EAYLVGLFEDTNLCAIHAKR

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98365363|Neopurcellia_florensis/1-109   ..............................   109
94014593|Copelatus_sp./1-108           ..............................   108
157102730|Methles_cribratellus/1-102   ..............................   102
68012882|Epinephelus_trimaculatu/1-120 SHXXCX........................   120
83655586|Austrognathia_sp./1-109       ..............................   109
296124995|Taeniostigma_elongatum/1-110 V.............................   110
268554686|Caenorhabditis_briggsa/1-136 VTIMPKDIQLARRIRGERA..........   136
187038177|Caenorhabditis_briggsa/1-136 VTIMPKDIQLARRIRGERA..........   136
308450880|Caenorhabditis_remanei/1-136 VTIMPKDIQLARRIRGERA..........   136
268536008|Caenorhabditis_briggsa/1-136 VTIMPKDIQLARRIRGERA..........   136
187034495|Caenorhabditis_briggsa/1-136 VTIMPKDIQLARRIRGERA..........   136
308494092|Caenorhabditis_remanei/1-136 VTIMPKDIQLARRIRGERA..........   136
50897629|Pontinus_longispinis/1-110    ..............................   110
148372423|Tosana_niwae/1-110           ..............................   110
50897787|Harpagifer_kerguelensis/1-110 ..............................   110
109159042|Benthosema_glaciale/1-110    ..............................   110
50897717|Myoxocephalus_polyacant/1-110 ..............................   110
50897785|Lycodes_diapterus/1-110       ..............................   110
68013014|Epinephelus_flavocaerul/1-114 VTIMP........................   114
68012924|Epinephelus_radiatus/1-117    VTIMP........................   117
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
68012967|Epinephelus_diacanthus/1-120   ................RTKQTARK..STGGKAPRKQLATKX.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   115
109159018|Acanthistius_ocellatus/1-110   ......................ARK..STGGKAPRKQLATKX.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
68012960|Pseudanthias_squamipinn/1-122  ................TKQTARK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   114
148372413|Nemanthias_carberryi/1-110   ......................ARK..STGGKAPRKQLATKA.AXKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897723|Triglops_scepticus/1-110       ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEXTNLCAIHVKR   110
68012953|Cephalopholis_urodeta/1-114   ................LRTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAITP..   114
148372419|Pseudanthias_pleurotae/1-110 ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGPVEDTNLCAIHAKR   110
50897626|Trachyscorpia_cristulat/1-108 ......................K..STGGKXPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   108
50897657|Aetapcus_maculatus/1-100       ...............................CKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   100
50897751|Careproctus_melanurus/1-110    ......................ARK..STGGKAPXKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
68012910|Epinephelus_chlorostigm/1-119 ................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVXLFEDTNLCAIHAKR   114
50897789|Gymnodraco_acuticeps/1-110    ......................ARX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
68012992|Epinephelus_multinotatu/1-112 ................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHA...   112
50897691|Normanichthys_crockeri/1-110  ......................AVK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
109159299|Trachinus_collignoni/1-110   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEPYLVGLFEDTNLCAIHAKR   110
50897653|Synanceia_verrucosa/1-110      ......................ARK..STGGKSSRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
68012957|Epinephelus_drummondhay/1-119 ................YQQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   114
68012945|Epinephelus_nigritus/1-119    ................TADRPRK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   114
68012869|Epinephelus_albomargina/1-93  ................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESS.......................   93
162138958|Danio_rerio/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   117
consensus                                                        ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR

logo
68012967|Epinephelus_diacanthus/1-120   VTIMP..............................   120
109159018|Acanthistius_ocellatus/1-110  ................................   110
68012960|Pseudanthias_squamipinn/1-122  VTIMPKGY........................   122
148372413|Nemanthias_carberryi/1-110    ................................   110
50897723|Triglops_scepticus/1-110       ................................   110
68012953|Cephalopholis_urodeta/1-114   ................................   114
148372419|Pseudanthias_pleurotae/1-110 ................................   110
50897626|Trachyscorpia_cristulat/1-108 ................................   108
50897657|Aetapcus_maculatus/1-100       ................................   100
50897751|Careproctus_melanurus/1-110    ................................   110
68012910|Epinephelus_chlorostigm/1-119  VTIMP..........................   119
50897789|Gymnodraco_acuticeps/1-110     ................................   110
68012992|Epinephelus_multinotatu/1-112 ................................   112
50897691|Normanichthys_crockeri/1-110  ................................   110
109159299|Trachinus_collignoni/1-110   ................................   110
50897653|Synanceia_verrucosa/1-110      ................................   110
68012957|Epinephelus_drummondhay/1-119  VTIMP..........................   119
68012945|Epinephelus_nigritus/1-119     VTIMP..........................   119
68012869|Epinephelus_albomargina/1-93   ................................   93
162138958|Danio_rerio/1-136             VTIMPKDIQLARRIRGERA............   136
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
170287757|Xenopus_(Silurana)/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    117
68509537|Stygifloris_sp./1-125                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    117
68509541|Rhoenanthus_sp./1-125                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    117
68013016|Epinephelus_undulostria/1-124          ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    116
239736601|Potamanthus_luteus/1-122             ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    116
68012875|Epinephelus_macrospilos/1-120          ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    114
68012970|Epinephelus_goreensis/1-121            ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    116
68012845|Epinephelus_rivulatus/1-119            ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    115
68012867|Epinephelus_aeneus/1-117               ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    114
68012887|Mycteroperca_fusca/1-119               ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    114
68012889|Mycteroperca_microlepis/1-119           ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    114
68012896|Epinephelus_ongus/1-119                ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    114
68012905|Cephalopholis_nigripinn/1-119           ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    114
68012935|Cratinus_agassizii/1-119               ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    114
68012948|Cephalopholis_sonnerati/1-119           ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    114
68012990|Epinephelus_labriformis/1-119           ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    114
68013002|Epinephelus_awoara/1-119               ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    114
68013007|Epinephelus_coeruleopun/1-119           ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    114
68013012|Hyporthrodus_niphobles/1-119            ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    114
68012912|Epinephelus_polyphekadi/1-117           ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR    112
consensus                                          TKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR

logo

170287757|Xenopus_(Silurana)/1-136          VTIMPKDIQLARRIRGERA.......................    136
68509537|Stygifloris_sp./1-125                VTIMPKDI...................................    125
68509541|Rhoenanthus_sp./1-125                VTIMPKDI...................................    125
68013016|Epinephelus_undulostria/1-124        VTIMPKDI...................................    124
239736601|Potamanthus_luteus/1-122            VTIMPK.....................................    122
68012875|Epinephelus_macrospilos/1-120        VTIMPK.....................................    120
68012970|Epinephelus_goreensis/1-121          VTIMP......................................    121
68012845|Epinephelus_rivulatus/1-119          VTIM.......................................    119
68012867|Epinephelus_aeneus/1-117             VTI........................................    117
68012887|Mycteroperca_fusca/1-119             VTIMP......................................    119
68012889|Mycteroperca_microlepis/1-119        VTIMP......................................    119
68012896|Epinephelus_ongus/1-119              VTIMP......................................    119
68012905|Cephalopholis_nigripinn/1-119        VTIMP......................................    119
68012935|Cratinus_agassizii/1-119             VTIMP......................................    119
68012948|Cephalopholis_sonnerati/1-119        VTIMP......................................    119
68012990|Epinephelus_labriformis/1-119        VTIMP......................................    119
68013002|Epinephelus_awoara/1-119             VTIMP......................................    119
68013007|Epinephelus_coeruleopun/1-119        VTIMP......................................    119
68013012|Hyporthrodus_niphobles/1-119         VTIMP......................................    119
68012912|Epinephelus_polyphekadi/1-117        VTIMP......................................    117
consensus                                     VTIMP
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                   ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR

68012927|Epinephelus_clippertone/1-117   ....................QTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   112
34013740|Anthopotamus_sp./1-115         ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
68012917|Epinephelus_amblycephal/1-114  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   109
68012941|Diplectrum_pacificum/1-114     .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   109
68012884|Epinephelus_adscensioni/1-109  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAK.   109
68012871|Epinephelus_andersoni/1-113   ..................TKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAK.   113
50897606|Aulorhynchus_flavidus/1-110   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897608|Apeltes_quadracus/1-110       ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897618|Sebastes_elongatus/1-110       ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897620|Sebastes_matsubarae/1-110     ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897622|Maxillicosta_whitleyi/1-110   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897624|Sebastolobus_macrochir/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897632|Scorpaena_guttata/1-110       ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897636|Scorpaenodes_scaber/1-110     ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897641|Thysanichthys_sp./1-110       ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897643|Dendrochirus_brachypter/1-110 ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897647|Setarches_guentheri/1-110     ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897649|Ablabys_taenionotus/1-110     ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897659|Congiopodus_peruvianus/1-110  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
50897661|Zanclorhynchus_spinifer/1-110 ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
consensus                                                ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR

logo                                                   VTIMP

68012927|Epinephelus_clippertone/1-117   VTIMP.............................   117
34013740|Anthopotamus_sp./1-115         VTIMP.............................   115
68012917|Epinephelus_amblycephal/1-114  VTIMP.............................   114
68012941|Diplectrum_pacificum/1-114     VTIMP.............................   114
68012884|Epinephelus_adscensioni/1-109  ......................................   109
68012871|Epinephelus_andersoni/1-113   ......................................   113
50897606|Aulorhynchus_flavidus/1-110   ......................................   110
50897608|Apeltes_quadracus/1-110       ......................................   110
50897618|Sebastes_elongatus/1-110       ......................................   110
50897620|Sebastes_matsubarae/1-110     ......................................   110
50897622|Maxillicosta_whitleyi/1-110   ......................................   110
50897624|Sebastolobus_macrochir/1-110  ......................................   110
50897632|Scorpaena_guttata/1-110       ......................................   110
50897636|Scorpaenodes_scaber/1-110     ......................................   110
50897641|Thysanichthys_sp./1-110       ......................................   110
50897643|Dendrochirus_brachypter/1-110 ......................................   110
50897647|Setarches_guentheri/1-110     ......................................   110
50897649|Ablabys_taenionotus/1-110     ......................................   110
50897659|Congiopodus_peruvianus/1-110  ......................................   110
50897661|Zanclorhynchus_spinifer/1-110 ......................................   110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
50897663|Caracanthus_maculatus/1-110      .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897671|Peristedion_miniatum/1-110       .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897673|Plectrogenium_nanum/1-110        .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897679|Platycephalus_bassensis/1-110    .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897681|Hoplichthys_citrinus/1-110       .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897683|Anoplopoma_fimbria/1-110         .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897685|Hexagrammos_decagrammus/1-110    .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897687|Pleurogrammus_azonus/1-110       .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897693|Rhamphocottus_richardso/1-110    .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897697|Artedius_fenestralis/1-110       .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897705|Hemilepidotus_jordani/1-110      .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897707|Hemilepidotus_zapus/1-110        .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897709|Icelinus_filamentosus/1-110      .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897711|Jordania_zonope/1-110            .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897713|Leptocottus_armatus/1-110        .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897725|Batrachocottus_baicalen/1-110    .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897727|Comephorus_baicalensis/1-110     .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897731|Hemitripterus_americanu/1-110    .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
50897739|Xeneretmus_latifrons/1-110       .....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     110
68012982|Mycteroperca_tigris/1-119        .................PKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR     114
consensus                                                       ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR

logo

50897663|Caracanthus_maculatus/1-110      ..............................     110
50897671|Peristedion_miniatum/1-110       ..............................     110
50897673|Plectrogenium_nanum/1-110        ..............................     110
50897679|Platycephalus_bassensis/1-110    ..............................     110
50897681|Hoplichthys_citrinus/1-110       ..............................     110
50897683|Anoplopoma_fimbria/1-110         ..............................     110
50897685|Hexagrammos_decagrammus/1-110    ..............................     110
50897687|Pleurogrammus_azonus/1-110       ..............................     110
50897693|Rhamphocottus_richardso/1-110    ..............................     110
50897697|Artedius_fenestralis/1-110       ..............................     110
50897705|Hemilepidotus_jordani/1-110      ..............................     110
50897707|Hemilepidotus_zapus/1-110        ..............................     110
50897709|Icelinus_filamentosus/1-110      ..............................     110
50897711|Jordania_zonope/1-110            ..............................     110
50897713|Leptocottus_armatus/1-110        ..............................     110
50897725|Batrachocottus_baicalen/1-110    ..............................     110
50897727|Comephorus_baicalensis/1-110     ..............................     110
50897731|Hemitripterus_americanu/1-110    ..............................     110
50897739|Xeneretmus_latifrons/1-110       ..............................     110
68012982|Mycteroperca_tigris/1-119        VTIMP........................     119
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
50897743|Dasycottus_setiger/1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
50897747|Aptocyclus_ventricosus/1-110               ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
50897757|Diplectrum_formosum/1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
50897759|Epinephelus_adscensioni/1-110              ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
50897781|Cheilodactylus_variegat/1-110              ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
50897791|Champsodon_atridorsalis/1-110              ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
50897793|Trichodon_trichodon/1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
56089819|Neostethus_bicornis/1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
58199291|Calamus_penna/1-110                        ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
58199307|Haletta_semifasciata/1-110                 ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
70609154|Gasterosteus_aculeatus/1-110               ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
109159040|Bembrops_heterurus/1-110                 ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
109159052|Centropogon_australis/1-110               ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
109159082|Dentex_dentex/1-110                       ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
109159086|Dichistius_capensis/1-110                 ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
109159122|Howella_brodiei/1-110                     ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
109159130|Inimicus_sinensis/1-110                   ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
109159190|Neosebastes_pandus/1-110                  ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
109159192|Notesthes_robusta/1-110                   ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
109159216|Paralabrax_maculatofas/1-110               ....................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR  110
consensus                                            ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR

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50897743|Dasycottus_setiger/1-110                  ..................................  110
50897747|Aptocyclus_ventricosus/1-110               ..................................  110
50897757|Diplectrum_formosum/1-110                  ..................................  110
50897759|Epinephelus_adscensioni/1-110              ..................................  110
50897781|Cheilodactylus_variegat/1-110              ..................................  110
50897791|Champsodon_atridorsalis/1-110              ..................................  110
50897793|Trichodon_trichodon/1-110                  ..................................  110
56089819|Neostethus_bicornis/1-110                  ..................................  110
58199291|Calamus_penna/1-110                        ..................................  110
58199307|Haletta_semifasciata/1-110                 ..................................  110
70609154|Gasterosteus_aculeatus/1-110               ..................................  110
109159040|Bembrops_heterurus/1-110                  ..................................  110
109159052|Centropogon_australis/1-110               ..................................  110
109159082|Dentex_dentex/1-110                       ..................................  110
109159086|Dichistius_capensis/1-110                 ..................................  110
109159122|Howella_brodiei/1-110                     ..................................  110
109159130|Inimicus_sinensis/1-110                   ..................................  110
109159190|Neosebastes_pandus/1-110                  ..................................  110
109159192|Notesthes_robusta/1-110                   ..................................  110
109159216|Paralabrax_maculatofas/1-110              ..................................  110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
109159238|Pomatomus_saltatrix/1-110   .....PSQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
109159311|Uranoscopus_albesca/1-110   .....PSQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
109159313|Uranoscopus_cadenati/1-110   .....PSQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
148372399|Epinephelus_itajara/1-110   .....PSQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
148372407|Hemanthias_signifer/1-110   .....PSQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
148372409|Pronotogrammus_multifa/1-110   .....PSQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
148372411|Luzonichthys_waitei/1-110   .....PSQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
148372415|Plectranthias_japonicu/1-110   .....PSQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
148372421|Pseudanthias_squamipin/1-110   .....PSQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
148372425|Hypoplectrus_indigo/1-110   .....PSQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
148372427|Hypoplectrus_unicolor/1-110   .....PSQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
148372429|Chelidonichthys_lucern/1-110   .....PSQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
148372435|Aplodactylus_arctidens/1-110   .....PSQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   110
68012937|Mycteroperca_venenosa/1-119   .....PSQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   114
68012939|Hyporthrodus_flavolimba/1-119   .....PSQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   114
50897645|Pterois_volitans/1-108   .....K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   108
50897651|Gymnapistes_marmoratus/1-108   .....K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   108
50897741|Cottunculus_thomsonii/1-108   .....K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   108
50897703|Cottus_poecilopus/1-99   .....KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   99
50897715|Microcottus_sellaris/1-105   .....GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   105
consensus                                **K  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
VTIMP

109159238|Pomatomus_saltatrix/1-110   .....   110
109159311|Uranoscopus_albesca/1-110   .....   110
109159313|Uranoscopus_cadenati/1-110   .....   110
148372399|Epinephelus_itajara/1-110   .....   110
148372407|Hemanthias_signifer/1-110   .....   110
148372409|Pronotogrammus_multifa/1-110   .....   110
148372411|Luzonichthys_waitei/1-110   .....   110
148372415|Plectranthias_japonicu/1-110   .....   110
148372421|Pseudanthias_squamipin/1-110   .....   110
148372425|Hypoplectrus_indigo/1-110   .....   110
148372427|Hypoplectrus_unicolor/1-110   .....   110
148372429|Chelidonichthys_lucern/1-110   .....   110
148372435|Aplodactylus_arctidens/1-110   .....   110
68012937|Mycteroperca_venenosa/1-119   VTIMP.....   119
68012939|Hyporthrodus_flavolimba/1-119   VTIMP.....   119
50897645|Pterois_volitans/1-108   .....   108
50897651|Gymnapistes_marmoratus/1-108   .....   108
50897741|Cottunculus_thomsonii/1-108   .....   108
50897703|Cottus_poecilopus/1-99   .....   99
50897715|Microcottus_sellaris/1-105   .....   105
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo

50897763|Hemanthias_leptus/1-105      ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   105
50897797|Trachinus_draco/1-105        ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   105
50897677|Elates_ransonnetii/1-100     ...........................RKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   100
50897737|Sarritor_frenatus/1-100      ...........................RKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESSEAYLVGLFEDTNLCAIHAKR   100
158346182|Prenolepis_imparis/1-107    ......................RX..PTGGXAPRXQLATKA.ARKSA..P.A.TGGVKKPH.RYXPGTVALREIRRXQKSTELLIRXXPFQRXVREIAQDFKTDLRFQSSAVMALQEAXEAYLVGLFEDTNLCAIHA..   107
109159260|Ruvettus_pretiosus/1-110   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELXIRKLPFQRLXCEIAQDFKTDLXFQSSAVMALQBAXEAYLXGLFXDTNLCAIHAKR   110
256387143|Sagitta_elegans/1-92       ..............................GGKAPRKQLATKA.AXKXA..P.X.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAXXALQEASEXXXVGL.............   92
170058975|Culex_quinquefasciatus/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.SGGVKKPH.RFRSGTVALREIRRYQKSTDLLIRKAPFQRLVREVAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
306975260|Selenops_occultus/1-109     ......................RK..STGGKAPRKQLVTKA.ARKSA..P.A.TGGVKKTH.RYRPGTVALRDIRRYQKSTELLIRKLPFQRLVREIAQDFKTXXRFQSSAVMALQEAXEAYLVGLFEDTNLCAIHAKR   109
203285154|Leptasterias_hexactis/1-110 ......................RK..STGGKAPRKQLAAKT.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREVAQNFKTELRFQSSALMALQEASEAYLVGLFEDTNLCAIHAKR   109
203285194|Leptasterias_aequalis/1-110 ......................CK..STGGKAPRKQLATKT.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREVAQDFKTELRFQSSALMALQEASEAYLVGLFEDTNLCAIHAKR   109
110645116|Leptasterias_hexactis/1-110 .....................ARK..STGGKAPRKQLATKT.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREVAQDFKTELRFQSSALMALQEASEAYLVGLFEDTNLCAIHAKR   110
203285148|Leptasterias_aequalis/1-110 ......................RK..STGGKAPRKQLATKT.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREVAQDFKTELRFQSSALMALQEASEAYLVGLFEDTNLCAIHAKR   109
203285358|Leptasterias_pusilla/1-110  ......................RK..STGGKAPRKQLATKT.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREVAQDFKTELRFQSSALMALQEASEAYLVGLFEDTNLCAIHAKR   109
203285278|Anasterias_antarctica/1-110 ......................RK..STGGKAPRKQLATKT.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLVRKLPFQRLVREIAQNFKTELRFQSSXVMALQEASEAYLVGLFEDTNLCAIHAKR   109
262178752|Selenops_insularis/1-96    ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREVXRYQKSTELLIRKLPFQRLVREIAQDFKTXXRFQSSAVMALQEASEAYLVGL.............   96
261263798|Neosmilaster_steineni/1-98  ............................TGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKVPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTN........   98
203285330|Granaster_nutrix/1-110      ......................RK..GTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIEQDFKTELRFQGSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
203285178|Leptasterias_muelleri/1-110 ......................RK..STGGKAPRKQLATKP.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREHAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
161319|Lytechinus_pictus/1-136       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELFIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEAREAYLVGLFEDTNLCAIHAKR   117
consensus                                                   **  **GGKAPRKQLATK* ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVRE*AQDFKT*LRFQSSA*MALQEA*EAYLVGLFEDTNLCAIHAKR

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50897763|Hemanthias_leptus/1-105      ..................................   105
50897797|Trachinus_draco/1-105        ..................................   105
50897677|Elates_ransonnetii/1-100     ..................................   100
50897737|Sarritor_frenatus/1-100      ..................................   100
158346182|Prenolepis_imparis/1-107    ..................................   107
109159260|Ruvettus_pretiosus/1-110    ..................................   110
256387143|Sagitta_elegans/1-92        ..................................    92
170058975|Culex_quinquefasciatus/1-136 VTIMPKDIQLARRVRGERN.............   136
306975260|Selenops_occultus/1-109     ..................................   109
203285154|Leptasterias_hexactis/1-110 V.................................   110
203285194|Leptasterias_aequalis/1-110 V.................................   110
110645116|Leptasterias_hexactis/1-110 ..................................   110
203285148|Leptasterias_aequalis/1-110 V.................................   110
203285358|Leptasterias_pusilla/1-110  V.................................   110
203285278|Anasterias_antarctica/1-110 V.................................   110
262178752|Selenops_insularis/1-96    ..................................    96
261263798|Neosmilaster_steineni/1-98 ..................................    98
203285330|Granaster_nutrix/1-110      V.................................   110
203285178|Leptasterias_muelleri/1-110 V.................................   110
161319|Lytechinus_pictus/1-136       VTIMPKDIQLARRIRGERA.............   136
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
159967|Paracentrotus_lividus/1-136      ...............MARTKQTARK..STGGKASRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVASREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     117
261263950|Lophaster_furcilliger/1-92      ..........................................RKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDTNLCAIHAKR      91
72012982|Strongylocentrotus_purp/1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDTNLCAIHAKR     117
110645140|Asteronyx_sp./1-110           ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDTNLCAIHAKR     110
203285218|Neosmilaster_steineni/1-110   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285460|Allostichaster_farquha/1-110  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDTNLCAIHAKR     109
261263681|Crossaster_multispinus/1-110  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDTNLCAIHAKR     109
261263731|Lophaster_furcilliger/1-110   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDTNLCAIHAKR     109
261263940|Perknaster_densus/1-92        ........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVG.............      92
203285466|Neosmilaster_georgianu/1-98   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFE...........      98
261263796|Lysasterias_perrieri/1-97     ........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDT.........      97
261263830|Acodontaster_hodgsoni/1-97    ........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDT.........      97
261263848|Neomorphaster_forcipat/1-97   ........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDT.........      97
261263852|Odontaster_penicillatu/1-97   ........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDT.........      97
261263872|Saliasterias_brachiata/1-97   ........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDT.........      97
261263906|Neosmilaster_georgianu/1-97   ........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDT.........      97
261263804|Odontaster_validus/1-98       ........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDTN........      98
261263918|Crossaster_multispinus/1-98   ........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDTN........      98
261263922|Solaster_dawsoni/1-97         ........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDT.........      97
261263936|Solaster_hypothrissus/1-97    ........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDT.........      97
consensus                                                       TGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDT*

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159967|Paracentrotus_lividus/1-136      VTIMPKDIQLARRIRGERA.............     136
261263950|Lophaster_furcilliger/1-92      V...............................      92
72012982|Strongylocentrotus_purp/1-136  VTIMPKDIQLARRIRGERA.............     136
110645140|Asteronyx_sp./1-110           ................................     110
203285218|Neosmilaster_steineni/1-110   V...............................     110
203285460|Allostichaster_farquha/1-110  V...............................     110
261263681|Crossaster_multispinus/1-110  V...............................     110
261263731|Lophaster_furcilliger/1-110   V...............................     110
261263940|Perknaster_densus/1-92        ................................      92
203285466|Neosmilaster_georgianu/1-98   ................................      98
261263796|Lysasterias_perrieri/1-97     ................................      97
261263830|Acodontaster_hodgsoni/1-97    ................................      97
261263848|Neomorphaster_forcipat/1-97   ................................      97
261263852|Odontaster_penicillatu/1-97   ................................      97
261263872|Saliasterias_brachiata/1-97   ................................      97
261263906|Neosmilaster_georgianu/1-97   ................................      97
261263804|Odontaster_validus/1-98       ................................      98
261263918|Crossaster_multispinus/1-98   ................................      98
261263922|Solaster_dawsoni/1-97         ................................      97
261263936|Solaster_hypothrissus/1-97    ................................      97
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
261263938|Perknaster_aurantiacus/1-97      ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDT.........     97
261263944|Paralophaster_antarcti/1-97      ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDT.........     97
261263972|Stephanasterias_albula/1-97      ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDT.........     97
261263808|Cuenotaster_involutus/1-107      ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDTNLCAIHAKR    106
261263842|Granaster_nutrix/1-107           ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDTNLCAIHAKR    106
261263878|Paralophaster_lorioli/1-107      ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDTNLCAIHAKR    106
261263920|Kampylaster_incurvatus/1-107    ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDTNLCAIHAKR    106
261263946|Solaster_paxillatus/1-107        ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDTNLCAIHAKR    106
261263948|Solaster_regularis/1-107         ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDTNLCAIHAKR    106
306975262|Selenops_occultus/1-109          .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTXXRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
58199430|Oreochromis_esculentus/1-110     ......................ARX..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTXLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
203285468|Stichaster_australis/1-110       .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLVRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    109
108795518|Argyroneta_aquatica/1-115       ...................KQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTXLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    113
58199432|Oreochromis_mossambicus/1-110    ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTXLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110555754|Papuadytes_hintelmanna/1-107    .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTXLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     107
158346016|Pheidole_perpilosa/1-107         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTXLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     107
110555742|Papuadytes_hintelmanna/1-106    .......................K..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTXLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHA..     106
115678953|Strongylocentrotus_pur/1-136    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDVKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    117
110645138|Ophiopsammus_maculata/1-110     ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645132|Ophioderma_brevispinum/1-110    ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
consensus                                                       *  *TGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKT*LRFQSSA*MALQEASEAYLVGLFEDTNLCAIHA**

logo

261263938|Perknaster_aurantiacus/1-97      ...............................     97
261263944|Paralophaster_antarcti/1-97      ...............................     97
261263972|Stephanasterias_albula/1-97      ...............................     97
261263808|Cuenotaster_involutus/1-107      V..............................    107
261263842|Granaster_nutrix/1-107           V..............................    107
261263878|Paralophaster_lorioli/1-107      V..............................    107
261263920|Kampylaster_incurvatus/1-107     V..............................    107
261263946|Solaster_paxillatus/1-107        V..............................    107
261263948|Solaster_regularis/1-107         V..............................    107
306975262|Selenops_occultus/1-109          ...............................    109
58199430|Oreochromis_esculentus/1-110      ...............................    110
203285468|Stichaster_australis/1-110       V..............................    110
108795518|Argyroneta_aquatica/1-115        VT.............................    115
58199432|Oreochromis_mossambicus/1-110     ...............................    110
110555754|Papuadytes_hintelmanna/1-107     ...............................    107
158346016|Pheidole_perpilosa/1-107         ...............................    107
110555742|Papuadytes_hintelmanna/1-106     ...............................    106
115678953|Strongylocentrotus_pur/1-136     VTIMPKDIQLARRIRGERA............    136
110645138|Ophiopsammus_maculata/1-110      ...............................    110
110645132|Ophioderma_brevispinum/1-110     ...............................    110
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                 3
                                                      2                                                                                                                                                 2
                                                      1                                                                                                                                                 1

110645128|Odontaster_validus/1-110                    ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645126|Odontaster_meridionali/1-110                ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645124|Mediaster_aequalis/1-110                   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645122|Macroptychaster_accres/1-110               ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645114|Henricia_sp./1-110                          ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645112|Gorgonocephalus_eucnem/1-110               ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645110|Evasterias_troschelii/1-110                ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645108|Eurygonias_hylacanthus/1-110               ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645104|Dermasterias_imbricata/1-110               ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645102|Culcita_novaeguineae/1-110                 ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645100|Crossaster_papposus/1-110                  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645098|Benthopecten_sp./1-110                     ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645096|Astropecten_polycanthu/1-110               ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645094|Astropecten_articulatu/1-110               ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645092|Astrogonium_miliarus/1-110                 ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645090|Asterodon_miliaris/1-110                   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645088|Asterodon_dilatatus/1-110                  ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645086|Patiria_miniata/1-110                      ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645084|Allostichaster_sp./1-110                   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
110645082|Acodontaster_conspicuu/1-110               ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    110
consensus                                             ARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR
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110645128|Odontaster_validus/1-110                    ..................................    110
110645126|Odontaster_meridionali/1-110                ..................................    110
110645124|Mediaster_aequalis/1-110                   ..................................    110
110645122|Macroptychaster_accres/1-110               ..................................    110
110645114|Henricia_sp./1-110                          ..................................    110
110645112|Gorgonocephalus_eucnem/1-110               ..................................    110
110645110|Evasterias_troschelii/1-110                ..................................    110
110645108|Eurygonias_hylacanthus/1-110               ..................................    110
110645104|Dermasterias_imbricata/1-110               ..................................    110
110645102|Culcita_novaeguineae/1-110                 ..................................    110
110645100|Crossaster_papposus/1-110                  ..................................    110
110645098|Benthopecten_sp./1-110                     ..................................    110
110645096|Astropecten_polycanthu/1-110               ..................................    110
110645094|Astropecten_articulatu/1-110               ..................................    110
110645092|Astrogonium_miliarus/1-110                 ..................................    110
110645090|Asterodon_miliaris/1-110                   ..................................    110
110645088|Asterodon_dilatatus/1-110                  ..................................    110
110645086|Patiria_miniata/1-110                      ..................................    110
110645084|Allostichaster_sp./1-110                   ..................................    110
110645082|Acodontaster_conspicuu/1-110               ..................................    110
consensus
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X non conserved
X similar
X $\geq$ 50% conserved
X $\geq$ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
59799550|Strongylocentrotus_droe/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
59799549|Solaster_stimpsoni/1-136         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
59799548|Pycnopodia_helianthoide/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
59799547|Psammechinus_miliaris/1-136     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
59799546|Pisaster_ochraceus/1-136        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
59799545|Pisaster_brevispinus/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
59799544|Paracentrotus_lividus/1-136     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
59799543|Lytechinus_pictus/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
59799542|Dermasterias_imbricata/1-136    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
72006844|Strongylocentrotus_purp/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   117
261263715|Solaster_hypothrissus/1-97     ......................................ATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    96
261263717|Perknaster_aurantiacus/1-97    ......................................ATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    96
261263749|Mediaster_bairdi/1-97           ......................................ATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    96
110645134|Ophiomyxa_flaccida/1-110        ......................ARK..STEGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
261263719|Perknaster_densus/1-100         ...................................KQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    99
110645142|Patiriella_regularis/1-110      ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
110645144|Perknaster_fuscus/1-110         ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
110645146|Pisaster_ochraceus/1-110        ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
110645148|Pteraster_tesselatus/1-110      ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
110645150|Schizostella_bifurcata/1-110   ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   110
consensus                                *******ARK  ST*GKAPRKQLATKA.ARKSA  P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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59799550|Strongylocentrotus_droe/1-136   VTIMPKDIQLARRIRGERA..............   136
59799549|Solaster_stimpsoni/1-136         VTIMPKDIQLARRIRGERA..............   136
59799548|Pycnopodia_helianthoide/1-136   VTIMPKDIQLARRIRGERA..............   136
59799547|Psammechinus_miliaris/1-136     VTIMPKDIQLARRIRGERA..............   136
59799546|Pisaster_ochraceus/1-136        VTIMPKDIQLARRIRGERA..............   136
59799545|Pisaster_brevispinus/1-136      VTIMPKDIQLARRIRGERA..............   136
59799544|Paracentrotus_lividus/1-136     VTIMPKDIQLARRIRGERA..............   136
59799543|Lytechinus_pictus/1-136          VTIMPKDIQLARRIRGERA..............   136
59799542|Dermasterias_imbricata/1-136    VTIMPKDIQLARRIRGERA..............   136
72006844|Strongylocentrotus_purp/1-136   VTIMPKDIQLARRIRGERA..............   136
261263715|Solaster_hypothrissus/1-97     V................................    97
261263717|Perknaster_aurantiacus/1-97    V................................    97
261263749|Mediaster_bairdi/1-97           V................................    97
110645134|Ophiomyxa_flaccida/1-110        ................................   110
261263719|Perknaster_densus/1-100         V................................   100
110645142|Patiriella_regularis/1-110      ................................   110
110645144|Perknaster_fuscus/1-110         ................................   110
110645146|Pisaster_ochraceus/1-110        ................................   110
110645148|Pteraster_tesselatus/1-110      ................................   110
110645150|Schizostella_bifurcata/1-110   ................................   110
consensus                                 ******************
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
110645152|Solaster_stimpsoni/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
110645154|Stegnaster_inflatus/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
203285146|Asterias_forbesi/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
203285150|Astrometis_sertulifera/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
203285158|Coronaster_marchenus/1-110                                                                                                                                                                                
203285160|Coscinasterias_tenuisp/1-110                                                                                
203285162|Diplasterias_brandti/1-110                                                                                
203285184|Urasterias_lincki/1-110                                                                                
203285200|Labidiaster_annulatus/1-110                                                                                
203285202|Lethasterias_nanimensi/1-110                                                                                
203285204|Leptasterias_polaris/1-110                                                                                
203285208|Marthasterias_glaciali/1-110                                                                                
203285216|Lysasterias_perrieri/1-110                                                                                
203285220|Sclerasterias_eustyla/1-110                                                                                
203285228|Neomorphaster_forcipat/1-110                                                                                
203285236|Diplodontias_singulari/1-110                                                                                
203285242|Odontaster_penicillatu/1-110                                                                                
203285254|Mediaster_aequalis/1-110                                                                                
203285256|Odontaster_validus/1-110                                                                                
203285260|Diplopteraster_multipe/1-110                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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110645152|Solaster_stimpsoni/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
110645154|Stegnaster_inflatus/1-110                                                                                
203285146|Asterias_forbesi/1-110                                                                                
203285150|Astrometis_sertulifera/1-110                                                                                
203285158|Coronaster_marchenus/1-110                                                                                
203285160|Coscinasterias_tenuisp/1-110                                                                                
203285162|Diplasterias_brandti/1-110                                                                                
203285184|Urasterias_lincki/1-110                                                                                
203285200|Labidiaster_annulatus/1-110                                                                                
203285202|Lethasterias_nanimensi/1-110                                                                                
203285204|Leptasterias_polaris/1-110                                                                                
203285208|Marthasterias_glaciali/1-110                                                                                
203285216|Lysasterias_perrieri/1-110                                                                                
203285220|Sclerasterias_eustyla/1-110                                                                                
203285228|Neomorphaster_forcipat/1-110                                                                                
203285236|Diplodontias_singulari/1-110                                                                                
203285242|Odontaster_penicillatu/1-110                                                                                
203285254|Mediaster_aequalis/1-110                                                                                
203285256|Odontaster_validus/1-110                                                                                
203285260|Diplopteraster_multipe/1-110                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
203285272|Cuenotaster_involutus/1-110      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285276|Coronaster_briareus/1-110          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285282|Meyenaster_gelatinosus/1-110      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285284|Stichaster_striatus/1-110          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285288|Cosmasterias_lurida/1-110          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285294|Sclerasterias_contorta/1-110      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285296|Zoroaster_fulgens/1-110            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285300|Acodontaster_hodgsoni/1-110        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285308|Asteropsis_carinifera/1-110        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285318|Cosmasterias_dyscrita/1-110        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285320|Australiaster_dubia/1-110          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285340|Pisaster_brevispinus/1-110          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285342|Pisaster_giganteus/1-110            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285344|Pycnopodia_helianthoid/1-110        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285350|Pisaster_ochraceus/1-110            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285352|Asterias_rubens/1-110               .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285354|Stephanasterias_albula/1-110        .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285356|Stylasterias_forreri/1-110          .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285378|Parvulastra_exigua/1-110            .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
203285396|Monachaster_sanderi/1-110           .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR     109
consensus                                                           RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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203285272|Cuenotaster_involutus/1-110      V.............................     110
203285276|Coronaster_briareus/1-110          V.............................     110
203285282|Meyenaster_gelatinosus/1-110       V.............................     110
203285284|Stichaster_striatus/1-110          V.............................     110
203285288|Cosmasterias_lurida/1-110          V.............................     110
203285294|Sclerasterias_contorta/1-110       V.............................     110
203285296|Zoroaster_fulgens/1-110            V.............................     110
203285300|Acodontaster_hodgsoni/1-110        V.............................     110
203285308|Asteropsis_carinifera/1-110        V.............................     110
203285318|Cosmasterias_dyscrita/1-110        V.............................     110
203285320|Australiaster_dubia/1-110          V.............................     110
203285340|Pisaster_brevispinus/1-110         V.............................     110
203285342|Pisaster_giganteus/1-110           V.............................     110
203285344|Pycnopodia_helianthoid/1-110       V.............................     110
203285350|Pisaster_ochraceus/1-110           V.............................     110
203285352|Asterias_rubens/1-110              V.............................     110
203285354|Stephanasterias_albula/1-110       V.............................     110
203285356|Stylasterias_forreri/1-110         V.............................     110
203285378|Parvulastra_exigua/1-110           V.............................     110
203285396|Monachaster_sanderi/1-110          V.............................     110
consensus                                    V
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
203285414|Diplasterias_meridiona/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
203285418|Saliasterias_brachiata/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
203285428|Lithosoma_novaezelandi/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
203285430|Rosaster_mimicus/1-110       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
203285442|Stegnaster_inflatus/1-110     .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
203285452|Coronaster_halicepus/1-110    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
203285456|Rumbleaster_eructans/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
203285458|Sclerasterias_mollis/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
261263675|Astrostole_scabra/1-110      .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
261263693|Solaster_dawsoni/1-110       .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
261263695|Patiriella_dyscrita/1-110    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
261263699|Hippasteria_spinosa/1-110    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
261263703|Pergamaster_incertus/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
261263707|Cryptopeltaster_lepido/1-110 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
261263713|Solaster_notophrynus/1-110   .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
261263721|Paralophaster_godfroyi/1-110 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
261263723|Paralophaster_antarcti/1-110 .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
261263727|Solaster_paxillatus/1-110    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
261263729|Solaster_regularis/1-110    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
261263760|Acanthaster_planci/1-110    .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
consensus                               RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR

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203285414|Diplasterias_meridiona/1-110   V.............................   110
203285418|Saliasterias_brachiata/1-110   V.............................   110
203285428|Lithosoma_novaezelandi/1-110   V.............................   110
203285430|Rosaster_mimicus/1-110         V.............................   110
203285442|Stegnaster_inflatus/1-110      V.............................   110
203285452|Coronaster_halicepus/1-110     V.............................   110
203285456|Rumbleaster_eructans/1-110     V.............................   110
203285458|Sclerasterias_mollis/1-110     V.............................   110
261263675|Astrostole_scabra/1-110        V.............................   110
261263693|Solaster_dawsoni/1-110         V.............................   110
261263695|Patiriella_dyscrita/1-110      V.............................   110
261263699|Hippasteria_spinosa/1-110      V.............................   110
261263703|Pergamaster_incertus/1-110     V.............................   110
261263707|Cryptopeltaster_lepido/1-110   V.............................   110
261263713|Solaster_notophrynus/1-110     V.............................   110
261263721|Paralophaster_godfroyi/1-110   V.............................   110
261263723|Paralophaster_antarcti/1-110   V.............................   110
261263727|Solaster_paxillatus/1-110      V.............................   110
261263729|Solaster_regularis/1-110       V.............................   110
261263760|Acanthaster_planci/1-110       V.............................   110
consensus                                V
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
91719048|Anoplodactylus_evansi/1-109
237513179|Dendrogaster_asterinae/1-109
237513181|Dendrogaster_ludwigi/1-109
261263764|Astrometis_sertulifera/1-97
261263766|Asterias_forbesi/1-97
261263780|Urasterias_lincki/1-97
261263786|Labidiaster_annulatus/1-97
261263788|Lethasterias_nanimensi/1-97
261263790|Leptasterias_polaris/1-97
261263802|Mediaster_aequalis/1-97
261263816|Meyenaster_gelatinosus/1-97
261263818|Stichaster_striatus/1-97
261263828|Sclerasterias_contorta/1-97
261263836|Cosmasterias_dyscrita/1-97
261263838|Australiaster_dubia/1-97
261263850|Diplodontias_singulari/1-97
261263864|Diplasterias_meridiona/1-97
261263868|Diplasterias_brandti/1-97
261263888|Rumbleaster_eructans/1-97
261263890|Astrostole_scabra/1-97
consensus
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91719048|Anoplodactylus_evansi/1-109    ..RKS..TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
237513179|Dendrogaster_asterinae/1-109  ..RKS..TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
237513181|Dendrogaster_ludwigi/1-109   ..RKS..TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR  109
261263764|Astrometis_sertulifera/1-97  ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263766|Asterias_forbesi/1-97         ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263780|Urasterias_lincki/1-97         ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263786|Labidiaster_annulatus/1-97     ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263788|Lethasterias_nanimensi/1-97    ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263790|Leptasterias_polaris/1-97      ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263802|Mediaster_aequalis/1-97        ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263816|Meyenaster_gelatinosus/1-97    ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263818|Stichaster_striatus/1-97       ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263828|Sclerasterias_contorta/1-97    ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263836|Cosmasterias_dyscrita/1-97     ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263838|Australiaster_dubia/1-97       ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263850|Diplodontias_singulari/1-97    ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263864|Diplasterias_meridiona/1-97    ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263868|Diplasterias_brandti/1-97      ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263888|Rumbleaster_eructans/1-97      ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
261263890|Astrostole_scabra/1-97         ..........TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........  97
consensus                                          TGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT
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91719048|Anoplodactylus_evansi/1-109    ..................................  109
237513179|Dendrogaster_asterinae/1-109  ..................................  109
237513181|Dendrogaster_ludwigi/1-109   ..................................  109
261263764|Astrometis_sertulifera/1-97  ..................................   97
261263766|Asterias_forbesi/1-97         ..................................   97
261263780|Urasterias_lincki/1-97        ..................................   97
261263786|Labidiaster_annulatus/1-97    ..................................   97
261263788|Lethasterias_nanimensi/1-97   ..................................   97
261263790|Leptasterias_polaris/1-97     ..................................   97
261263802|Mediaster_aequalis/1-97       ..................................   97
261263816|Meyenaster_gelatinosus/1-97   ..................................   97
261263818|Stichaster_striatus/1-97      ..................................   97
261263828|Sclerasterias_contorta/1-97   ..................................   97
261263836|Cosmasterias_dyscrita/1-97    ..................................   97
261263838|Australiaster_dubia/1-97      ..................................   97
261263850|Diplodontias_singulari/1-97   ..................................   97
261263864|Diplasterias_meridiona/1-97   ..................................   97
261263868|Diplasterias_brandti/1-97     ..................................   97
261263888|Rumbleaster_eructans/1-97     ..................................   97
261263890|Astrostole_scabra/1-97        ..................................   97
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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                                                                                                                                                                                                                                                                                                                                                       
261263896|Allostichaster_farquha/1-97      ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........      97
261263926|Hippasteria_spinosa/1-97          ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........      97
261263942|Paralophaster_godfroyi/1-97       ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........      97
261263964|Pisaster_giganteus/1-97           ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........      97
261263970|Asterias_rubens/1-97              ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........      97
261263974|Stylasterias_forreri/1-97         ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........      97
261263822|Cosmasterias_lurida/1-99          ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNL.......      99
261263770|Diplasterias_brandti/1-96         ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFED..........      96
261263952|Mediaster_bairdi/1-96             ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFED..........      96
261263958|Acanthaster_planci/1-96           ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFED..........      96
261263880|Rosaster_mimicus/1-95             ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFE..........      95
261263884|Coronaster_halicepus/1-95         ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFE..........      95
261263800|Sclerasterias_eustyla/1-93        ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGL..............      93
261263892|Sclerasterias_mollis/1-93         ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGL..............      93
261263792|Marthasterias_glaciali/1-105      ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAK.     105
261263806|Lophaster_densus/1-107            ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    106
261263812|Coronaster_briareus/1-107         ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    106
261263834|Asteropsis_carinifera/1-107       ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    106
261263860|Monachaster_sanderi/1-107         ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    106
261263866|Parvulastra_exigua/1-107          ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR    106
consensus                                                             TGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFED*

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
261263896|Allostichaster_farquha/1-97      ..............................      97
261263926|Hippasteria_spinosa/1-97          ..............................      97
261263942|Paralophaster_godfroyi/1-97       ..............................      97
261263964|Pisaster_giganteus/1-97           ..............................      97
261263970|Asterias_rubens/1-97              ..............................      97
261263974|Stylasterias_forreri/1-97         ..............................      97
261263822|Cosmasterias_lurida/1-99          ..............................      99
261263770|Diplasterias_brandti/1-96         ..............................      96
261263952|Mediaster_bairdi/1-96             ..............................      96
261263958|Acanthaster_planci/1-96           ..............................      96
261263880|Rosaster_mimicus/1-95             ..............................      95
261263884|Coronaster_halicepus/1-95         ..............................      95
261263800|Sclerasterias_eustyla/1-93        ..............................      93
261263892|Sclerasterias_mollis/1-93         ..............................      93
261263792|Marthasterias_glaciali/1-105      ..............................     105
261263806|Lophaster_densus/1-107            V.............................     107
261263812|Coronaster_briareus/1-107         V.............................     107
261263834|Asteropsis_carinifera/1-107       V.............................     107
261263860|Monachaster_sanderi/1-107         V.............................     107
261263866|Parvulastra_exigua/1-107          V.............................     107
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
261263908|Stegnaster_inflatus/1-107      ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   106
261263928|Pergamaster_incertus/1-107    ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   106
261263966|Pycnopodia_helianthoid/1-107  ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   106
203285454|Leptasterias_polaris/1-110   .......................RK..XTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKR   109
261263689|Kampylaster_incurvatus/1-110  .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDTNMCAIHAKR   109
47551065|Strongylocentrotus_purp/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGXXXDTNLCAIHAKR   117
47551071|Strongylocentrotus_purp/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVRLFEDTNLCAIHAKR   117
261263898|Lithosoma_novaezelandi/1-91  ..........................TGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLV...............   91
261263962|Pisaster_brevispinus/1-97    ..........................TGGKAPRKQLATKA.ARKSA..P.X.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAVMALQEASEAYLVGLFEDT.........   97
261263776|Leptasterias_muelleri/1-97   ..........................TGGKAPRKQLATKA.ARKSA..P.X.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSSAIMALQEASEAYLVGLFEDT.........   97
90185002|Chiromantis_xerampelina/1-109 .......................RK..STGGKAPRKQLATKX.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSXEXLIRXXPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAYLVGLFEDTNLCAIHAKR   109
283857389|Bhatia_satsumensis/1-105     ...................KQTARK..STGGKAPRKQLATKA.AXXSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQXASEXXLVGLXEDTN........   105
241152587|Ixodes_scapularis/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGIKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMAMQEACEAYLVSLFEDCNLCAIHAKR   117
256387117|Convoluta_convoluta/1-92     ..........................GGKAPRKQLATKA.ARKSA..P.A.VGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQTAAIGALQEAAEAYLVGL..............   92
296238914|Callithrix_jacchus/1-135     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A..GGVKKPH.RYRPGIVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSVVMALQEACEPYLVGLFEDTNLCAIHAKR   116
170049041|Culex_quinquefasciatus/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRRYQKSTELLLRKLPFQRLVREVAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
187936047|Adineta_vaga/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGIKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESCESYLVGLFEDTNLCAIHAKR   117
187936081|Philodina_roseola/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGIKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACCESYLVGLFEDTNLCAIHAKR   117
119894421|Bos_taurus/1-136             ...............MARTKQTARK..STGGKAPRKQLATKV.ARKSA..P.A.TGGMKKPH.RYRPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
92110720|Ventricoloidea_foveolat/1-109 .......................RK..STGGXAPRKQLATXA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDXKTDLRFQSSAVTALQEAXEAYLVGLFEDTNLCAIHAKR   109
consensus                                                   **  *TGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKT*LRFQSSAVMALQEA*EAYLVGLFEDTN********
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logo
261263908|Stegnaster_inflatus/1-107      V.............................   107
261263928|Pergamaster_incertus/1-107     V.............................   107
261263966|Pycnopodia_helianthoid/1-107   V.............................   107
203285454|Leptasterias_polaris/1-110     V.............................   110
261263689|Kampylaster_incurvatus/1-110   V.............................   110
47551065|Strongylocentrotus_purp/1-136   VTIMPKDIQLARRIRGERA...........   136
47551071|Strongylocentrotus_purp/1-136   VTIMPKDIQLARRIRGERA...........   136
261263898|Lithosoma_novaezelandi/1-91    .............................   91
261263962|Pisaster_brevispinus/1-97      .............................   97
261263776|Leptasterias_muelleri/1-97     .............................   97
90185002|Chiromantis_xerampelina/1-109   .............................   109
283857389|Bhatia_satsumensis/1-105       .............................   105
241152587|Ixodes_scapularis/1-136        VTIMPKDMQLARRIRGERS...........   136
256387117|Convoluta_convoluta/1-92       .............................   92
296238914|Callithrix_jacchus/1-135       VTIMPKDIQLARRIHGERA...........   135
170049041|Culex_quinquefasciatus/1-136   VTIMPKDIQLARRIRGERF...........   136
187936047|Adineta_vaga/1-136             VTIMPKDIQLARRIRGERA...........   136
187936081|Philodina_roseola/1-136        VTIMPKDIQLARRIRGERA...........   136
119894421|Bos_taurus/1-136               VTIMPKDIQLARRIRGERA...........   136
92110720|Ventricoloidea_foveolat/1-109   .............................   109
consensus                                *
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
91719086|Sericosura_venticola/1-109          ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIXKLPFQRLVREIAQDFKTDLRFQSSAVLALQXACEAYLVGLFEDTNLCAIHAKR     109
98365359|Rakaia_arcticosa/1-109                ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTXLLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAXLVGLFEDTNLCAIHAKR     109
194223088|Equus_caballus/1-137                .............MAFLEFFTARK..STSGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACKAYLVGLFEDTNLCAIHAKR     118
301115049|Phytophthora_infestans/1-136          ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQGSAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
219111525|Phaeodactylum_tricornu/1-136          ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQDFKSDLRFQGSAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
223998042|Thalassiosira_pseudona/1-136          ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTDLLIRKLPFQRLVREIAQDFKSDLRFQGSAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
298710648|Ectocarpus_siliculosus/1-136          ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQGSAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
298713701|Ectocarpus_siliculosus/1-136          ..............MARTKQTARK..STGRQAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQGSAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
7329709|Fucus_serratus/1-108                   ..........................................SA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQGSAVLALQEAAEAYLVGLFEDTNLCAIHAKR      89
4504299|Homo_sapiens/1-136                     ..............MARTKQTARK..STGGKAPRKQLATKV.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLNREIAQDFKTDLRFQSSAVMALQEACDSYLVGLFEDTNLCVIHAKR     117
157673893|Nephilengys_sp./1-92                 ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAYMXLXXASEAY................      92
209970240|Onykia_carriboea/1-104               ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSACXGLQEASEAYLVGLFEDTNLCA.....     104
221136264|Hydra_magnipapillata/1-100            ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAVMALQRRPKPT................     100
209970172|Architeuthis_sp./1-109                ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAQRGLLVGLFEDTNLCAIHAKR     109
265267386|Sialis_lutaria/1-109                  ........................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMAFKEASEAYLVGLFEDTNLCAIHAKR     109
109159152|Lobianchia_dofleini/1-110             ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESGEAYLVGLXEDTNLCAIHAKR     110
194220202|Equus_caballus/1-136                 ..............MARTKQTARK..STGGKAPRKQLATKV.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHTKR     117
58081645|Potamonautes_rayboldi/1-102            ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAFEAYLV..............     102
264667483|Locusta_migratoria/1-110              ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAGEAYLVGLFEDTNLCAIHAKR     110
157820487|Rattus_norvegicus/1-136               ..............MARTKQTARK..STGGKAPRKQLATKV.ARKSA..P.A.TGGVKKPH.RYHPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACDSYLVGLFEDTNLCAIHAKR     117
consensus                                        ********RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFK*DLRFQ*SAV*ALQEA EAYLVGLFEDTNLCAIH*KR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
91719086|Sericosura_venticola/1-109          ..................................     109
98365359|Rakaia_arcticosa/1-109                ..................................     109
194223088|Equus_caballus/1-137                VTIMPKDVQLACRIRAERA..............     137
301115049|Phytophthora_infestans/1-136         VTIMPKDIQLARRIRGERS..............     136
219111525|Phaeodactylum_tricornu/1-136         VTIMPKDIQLARRIRGERS..............     136
223998042|Thalassiosira_pseudona/1-136         VTIMPKDIQLARRIRGERS..............     136
298710648|Ectocarpus_siliculosus/1-136         VTIMPKDIQLARRIRGERS..............     136
298713701|Ectocarpus_siliculosus/1-136         VTIMPKDIQLARRIRGERS..............     136
7329709|Fucus_serratus/1-108                   VTIMPKDIQLARRIRGERS..............     108
4504299|Homo_sapiens/1-136                     VTIMPKDIQLARRIRGERA..............     136
157673893|Nephilengys_sp./1-92                 ..................................      92
209970240|Onykia_carriboea/1-104               ..................................     104
221136264|Hydra_magnipapillata/1-100           ..................................     100
209970172|Architeuthis_sp./1-109               ..................................     109
265267386|Sialis_lutaria/1-109                 ..................................     109
109159152|Lobianchia_dofleini/1-110            ..................................     110
194220202|Equus_caballus/1-136                 VTIMPKDIQLARRIRGDRT..............     136
58081645|Potamonautes_rayboldi/1-102           ..................................     102
264667483|Locusta_migratoria/1-110             ..................................     110
157820487|Rattus_norvegicus/1-136              VTIMPKDIQLARRIRGERA..............     136
consensus                                       *********** ******
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                 4 3 2 1
                                                     MARTKQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAYLVGLFEDTNLCAIHAKR 4 3 2 1
148675749|Mus_musculus/1-136                        ...............MARTKQTARK..STGGKAPRKQLATKV.ARKSA..P.A.TGGVKKPH.RYHPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACESYLVGLFEDTNLCAIHAKR   117
297661735|Pongo_abelii/1-149                        ..MGRGRRGGNSFRLMARTKQTARK..STGGKAPRKQLATKV.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACESYLVGLFEDTNLCAIHAKR   130
301789673|Ailuropoda_melanoleuca/1-136              ...............MARTKQTARK..STGGKAPRKQLATKV.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
291415174|Oryctolagus_cuniculus/1-136              ...............MARTKQTARK..STGGKAPRKQLATKV.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
109017927|Macaca_mulatta/1-136                     ...............MARTKQTARK..STGGKAPRKQLATKV.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACESYLVGLFEDTNLCAIHAKR   117
297661737|Pongo_abelii/1-119                        ...............MARTKQTARK..STGGKAPRKQLATKV.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSADTNLCAIHAKRVTIMPKDIQLARRIRGE   117
297280576|Macaca_mulatta/1-119                     ...............MARTKQTARK..STGGKAPRKQLATKV.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSADTNLCAIHAKRVTIMPKDIQLARRIRGE   117
98374229|Ameerega_braccata/1-109                   ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAYLVGLFEDTNLCAIHAKR   109
98365391|Rakaia_calcarobtusa/1-109                  ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAYLVGLFEDTNLCAIHAKR   109
98365357|Neopurcellia_forsteri/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAYLVGLFEDTNLCAIHAKR   109
81158392|Scutigera_coleoptrata/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAYLVGLFEDTNLCAIHAKR   109
21238540|Lepthyphantes_minutus/1-109                ......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAYLVGLFEDTNLCAIHAKR   109
57232797|Irdex_sp./1-125                           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAYLVGLFEDTNLCAIHAKR   117
118341062|Pisinna_albizona/1-91                    ............................KAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAYLVGLF............   91
98365403|Paragovia_sironoides/1-109                 ......................RK..STGGKAPRKQLAXKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAYLVGLFEDTNLCAIHAKR   109
3002635|Lepetodrilus_fucensis/1-91                  ............................KAPRKQLXTKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAYLVGLF............   91
294805037|Vesicaperla_substirpes/1-91               ...........................................RKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAYLVGLFEDTNLCAIHAKR   91
294805039|Vesicaperla_eylesi/1-91                   ...........................................RKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAXEAYLVGLFEDTNLCAIHAKR   91
296238901|Callithrix_jacchus/1-135                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A..GGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVVALQEACEAYLVGLFEDTNLCAIHAKR   116
296238486|Callithrix_jacchus/1-135                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A..GGVKKPH.RYRPGIVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   116
consensus                                                        ********RK  STGGKAPRKQLATK* ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEA*E*YLVGLFEDTNLCAIHAKR
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logo                                                 4 3 2 1
                                                     VTIMPKDIQLARRIRGERA 4 3 2 1
148675749|Mus_musculus/1-136                         VTIMPKDIQLARRIRGERA.............   136
297661735|Pongo_abelii/1-149                         VTIMPKDIQLARRIRGERA.............   149
301789673|Ailuropoda_melanoleuca/1-136               VTIMPKDIQLARRIRGERA.............   136
291415174|Oryctolagus_cuniculus/1-136                VTIMPKDIQLARRIRGERA.............   136
109017927|Macaca_mulatta/1-136                       VTIMPKDIQLARRIRGERA.............   136
297661737|Pongo_abelii/1-119                         RA..............................   119
297280576|Macaca_mulatta/1-119                       RA..............................   119
98374229|Ameerega_braccata/1-109                     ................................   109
98365391|Rakaia_calcarobtusa/1-109                   ................................   109
98365357|Neopurcellia_forsteri/1-109                 ................................   109
81158392|Scutigera_coleoptrata/1-109                 ................................   109
21238540|Lepthyphantes_minutus/1-109                 ................................   109
57232797|Irdex_sp./1-125                             VTIMXKDI........................   125
118341062|Pisinna_albizona/1-91                      ................................    91
98365403|Paragovia_sironoides/1-109                  ................................   109
3002635|Lepetodrilus_fucensis/1-91                   ................................    91
294805037|Vesicaperla_substirpes/1-91                ................................    91
294805039|Vesicaperla_eylesi/1-91                    ................................    91
296238901|Callithrix_jacchus/1-135                   VTIMPKDIQLARCIRGERA.............   135
296238486|Callithrix_jacchus/1-135                   VTIMPKDIQLARCIRGERA.............   135
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297677463|Pongo_abelii/1-119          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQNSA................DTNLCAIHAKR   100
297281911|Macaca_mulatta/1-116          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQN...................TNLCAIHAKR    97
297677461|Pongo_abelii/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQNSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
301783473|Ailuropoda_melanoleuca/1-141  .........MKHTEIQTAQQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   122
281346016|Ailuropoda_melanoleuca/1-123  ...................QQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   113
291395649|Oryctolagus_cuniculus/1-136 ...............MARTKQTARK..STGGKAPRKRLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
45768281|Homo_sapiens/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQCLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
194039886|Sus_scrofa/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYWPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
1568559|Homo_sapiens/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEATLVGLFEDTNLCAIHAKR   117
281346205|Ailuropoda_melanoleuca/1-127  ......................R..RTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   108
386772|Homo_sapiens/1-135             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
281345279|Ailuropoda_melanoleuca/1-134  ................RANSSPRK..APRGTAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   115
281345261|Ailuropoda_melanoleuca/1-118  ...................................PRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   101
281345997|Ailuropoda_melanoleuca/1-144  .......LGCSLRWAMARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   125
281345282|Ailuropoda_melanoleuca/1-137  ..............AMARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   118
45219796|Homo_sapiens/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
81911079|Mus_pahari/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
301783429|Ailuropoda_melanoleuca/1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
297677315|Pongo_abelii/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
296197133|Callithrix_jacchus/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
consensus                                 **R**QTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR

logo                                      VTIMPKDIQLARRIRGERA

297677463|Pongo_abelii/1-119              VTIMPKDIQLARRIRGERA..............   119
297281911|Macaca_mulatta/1-116            VTIMPKDIQLARRIRGERA..............   116
297677461|Pongo_abelii/1-136              VTIMPKDIQLARRIRGERA..............   136
301783473|Ailuropoda_melanoleuca/1-141    VTIMPKDIQLHTGLKVPVE..............   141
281346016|Ailuropoda_melanoleuca/1-123    VTIMPKDIQL.......................   123
291395649|Oryctolagus_cuniculus/1-136     VTIMPKDIQLARRIRGERA..............   136
45768281|Homo_sapiens/1-136               VTIMPKDIQLARRIRGERA..............   136
194039886|Sus_scrofa/1-136                VTIMPKDIQLARRIRGERA..............   136
1568559|Homo_sapiens/1-136                VTIMPKDIQLARRIRGERA..............   136
281346205|Ailuropoda_melanoleuca/1-127    VTIMPKDIQLARRIRGERA..............   127
386772|Homo_sapiens/1-135                 VTIMPKDIQLARRIRGEA...............   135
281345279|Ailuropoda_melanoleuca/1-134    VTIMPKDIQLARRIRGERA..............   134
281345261|Ailuropoda_melanoleuca/1-118    VTIMPKDIQLARRIRGE................   118
281345997|Ailuropoda_melanoleuca/1-144    VTIMPKDIQLARRIRGERA..............   144
281345282|Ailuropoda_melanoleuca/1-137    VTIMPKDIQLARRIRGERA..............   137
45219796|Homo_sapiens/1-136               VTIMLKDIQLARRIRGERA..............   136
81911079|Mus_pahari/1-136                 VTIMPKDIQLARRIRGERA..............   136
301783429|Ailuropoda_melanoleuca/1-136    VTIMPKDIQLARRIRGERA..............   136
297677315|Pongo_abelii/1-136              VTIMPKDIQLARRIRGERA..............   136
296197133|Callithrix_jacchus/1-136        VTIMPKDIQLARRIRGERA..............   136
consensus                                 VTIMPKDIQLARRIRGERA
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 MARTKQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                   3
                                                      2                                                                                                                                                   2
                                                      1                                                                                                                                                   1
291395635|Oryctolagus_cuniculus/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
194039762|Sus_scrofa/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
149731848|Equus_caballus/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
61835899|Bos_taurus/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
57110411|Canis_lupus/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
55626036|Pan_troglodytes/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
302565464|Macaca_mulatta/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
61556817|Rattus_norvegicus/1-136         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
21489955|Mus_musculus/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
4504281|Homo_sapiens/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   117
281345292|Ailuropoda_melanoleuca/1-142  .........SPVSSEMARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   123
281345266|Ailuropoda_melanoleuca/1-141  ..........LQFFQMARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   122
281345263|Ailuropoda_melanoleuca/1-139  ............ALEMARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   120
281345285|Ailuropoda_melanoleuca/1-137  ..............VMARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   118
78070549|Mus_musculus/1-135              ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   116
229423|Bos_taurus/1-135                 ...............ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   116
78070652|Mus_musculus/1-134              ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   115
158829365|Laurencella_sp./1-110          ......................ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR   110
110627788|Armandia_bilobata/1-95         .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVG.............   95
56203471|Homo_sapiens/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQRFKTDLRFQSSAVMALQEAREAYLVGLFEDTNLCAIHAKR   117
consensus                                                *ARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKR

logo                                                  4 VTIMPKDIQLARRIRGERA                                                       4
                                                      3                                                                           3
                                                      2                                                                           2
                                                      1                                                                           1
291395635|Oryctolagus_cuniculus/1-136   VTIMPKDIQLARRIRGERA..............   136
194039762|Sus_scrofa/1-136             VTIMPKDIQLARRIRGERA..............   136
149731848|Equus_caballus/1-136          VTIMPKDIQLARRIRGERA..............   136
61835899|Bos_taurus/1-136               VTIMPKDIQLARRIRGERA..............   136
57110411|Canis_lupus/1-136              VTIMPKDIQLARRIRGERA..............   136
55626036|Pan_troglodytes/1-136          VTIMPKDIQLARRIRGERA..............   136
302565464|Macaca_mulatta/1-136          VTIMPKDIQLARRIRGERA..............   136
61556817|Rattus_norvegicus/1-136        VTIMPKDIQLARRIRGERA..............   136
21489955|Mus_musculus/1-136             VTIMPKDIQLARRIRGERA..............   136
4504281|Homo_sapiens/1-136              VTIMPKDIQLARRIRGERA..............   136
281345292|Ailuropoda_melanoleuca/1-142  VTIMPKDIQLARRIRGERA..............   142
281345266|Ailuropoda_melanoleuca/1-141  VTIMPKDIQLARRIRGERA..............   141
281345263|Ailuropoda_melanoleuca/1-139  VTIMPKDIQLARRIRGERA..............   139
281345285|Ailuropoda_melanoleuca/1-137  VTIMPKDIQLARRIRGERA..............   137
78070549|Mus_musculus/1-135             VTIMPKDIQLARRIRGERA..............   135
229423|Bos_taurus/1-135                 VTIMPKDIQLARRIRGERA..............   135
78070652|Mus_musculus/1-134             VTIMPKDIQLARRIRGERA..............   134
158829365|Laurencella_sp./1-110         ................................   110
110627788|Armandia_bilobata/1-95        ................................    95
56203471|Homo_sapiens/1-136             VTIMPKDIQLVSRIRGERA..............   136
consensus                               VTIMPKDIQLARRIRGERA
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
58610264|Scutigera_coleoptrata/1-100      .......................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAWMALQEAREAYLVGLFEDT.........  100
66826873|Dictyostelium_discoideu/1-136    ..............MARTKQTARK..STGAKVPRKHLSSKS.SFPSK..P.V.NEVLKKTH.RFRPGTVALREIRRYQKSSDLLIKKLPFQRLVREIAQEFKTDLRFQAAAIEALQEATEAYLVGLFEDTNLCAIHAKR  117
74858187|Dictyostelium_discoideu/1-136    ..............MARTKQTARK..STGAKVPRKHLSSKS.SFPSK..P.V.NEVLKKTH.RFRPGTVALREIRRYQKSSDLLIKKLPFQRLVREIAQEFKTDLRFQAAAIEALQEATEAYLVGLFEDTNLCAIHAKR  117
119600113|Homo_sapiens/1-122            ..........................KAARKQLGTKA.AHKSA..P.S.TGGVKKPH.HYRPGTVALREIRRYQKATELLIRKLRFQRLVQEIAQDLKTDLRFQSAAIGALQEASEAYLVGLFEDSNLCAIHAKR  103
296206054|Callithrix_jacchus/1-136       ..............MARTKQTPCN..STSGKAPRKPLATKA.IHKSA..P.S.TGGVKKPH.SYRPGTVALHEIRRYQKSSELLIHKLPFQRLVREIAQDFKTDLHFQSAAISALQEASEAYLVGLFEDTNLCAIHAKR  117
296208977|Callithrix_jacchus/1-136       ..............MARTKQTARK..SSGGKAPRKQLATKA.ARKSA..P.S.TGGVKEPH.RYRPGTVALREIRRYQTSTELPIRKSSFQRLVQEIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
296236719|Callithrix_jacchus/1-136       ..............MARTKQTARK..STSGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQTSTELLIRKSSFQRLVQEIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
281200653|Polysphondylium_pallid/1-135  ..............MARTKQTARK..STGAKVPRKHLANKS.ASKY...P.S.TSGLKKTH.RFKPGTVALREIRRYQKTSELLIKKLPFQRLVREIAQEFKTDLRFQAAAIHALQEASEAYLVGLFEDTNLCAIHAKR  116
296813525|Arthroderma_otae/1-136          ..............MARTKQTARK..STGGKVPRKHIASKA.ARKAA..P.T.TGGVKKSR.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREISQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHARR  117
302661231|Trichophyton_verrucosu/1-136  ..............MARTKQTARK..STGGKVPRKHIASKA.ARKAA..P.T.TGGVKKSR.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREISQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHARR  117
311345858|Arthroderma_gypseum/1-136      ..............MARTKQTARK..STGGKVPRKHIASKA.ARKAA..P.T.TGGVKKSR.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREISQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHARR  117
268575164|Caenorhabditis_briggsa/1-136  ..............MARTKQTARK..STAGKAPRKQLATKS.ARKAA..P.V.AGGVKKPH.RFRKGTVALREIRRYQKSTELLVRKLPFQRLVREIAQEFKTDLRFQSAAIGALQEASESYLVGLFEDTNLCAIHAKR  117
187023595|Caenorhabditis_briggsa/1-136  ..............MARTKQTARK..STAGKAPRKNLATKS.ARKAA..P.V.AGGVKKPH.RFRKGTVALREIRRYQKSTELLVRKLPFQRLVREIAQEFKTDLRFQSAAIGALQEASESYLVGLFEDTNLCAIHAKR  117
109019309|Macaca_mulatta/1-136           ..............MAGTKQTARK..STSGKAPRKQLSTKA.TCKSE..P.S.TGGVKKPH.RYRPGTVALGEISRYQKSTEFLIPKHPLQRLVREIAQDFKTDLRFQSAAMGALQEASEAYLVGLFEDTNLCAIHAKR  117
66826875|Dictyostelium_discoideu/1-136    ..............MARTKQTARK..STGAKVPRKHLGNKS.SQKSF..P.S.TQGLKKTH.RFRPGTVALREIRRYQKSSELLIKKLPFQRLVREIAQEFKTDLRFQAAAIQALQEASEAYLVGLFEDTNLCAIHAKR  117
74858186|Dictyostelium_discoideu/1-136    ..............MARTKQTARK..STGAKVPRKHLGNKS.SQKSF..P.S.TQGLKKTH.RFRPGTVALREIRRYQKSSELLIKKLPFQRLVREIAQEFKTDLRFQAAAIQALQEASEAYLVGLFEDTNLCAIHAKR  117
213401633|Schizosaccharomyces_ja/1-137  ..............MARTKQTARK..STGGKAPRKQLASKA.ARKSAP..P.T.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEAVEAYLVSLFEDTNLCAIHGKR  118
122076|Schizosaccharomyces_pombe/1-136  ..............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.A.TGGVKKPH.RYRPPTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEAVEAYLVSLFEDTNLCAIHGKR  117
19112359|Schizosaccharomyces_pom/1-136   ..............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEAVEAYLVSLFEDTNLCAIHGKR  117
122065|Schizosaccharomyces_pombe/1-136  ..............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEAVEAYLVSLFEDTNLCAIHGKR  117
consensus                                 MARTKQTARK  ST**K*PRK*L**K* **K**  P * T*G*KK*H R*RPGTVALREIRRYQKS*ELLI*KLPFQRLVREIAQ*FKTDLRFQ**AI*ALQEA*EAYLV*LFEDTNLCAIH*KR

logo                                      VTIMPKDIQLARRIRGERA

58610264|Scutigera_coleoptrata/1-100      ..................................  100
66826873|Dictyostelium_discoideu/1-136    VTIMVKDIQLARRIRGERA..............  136
74858187|Dictyostelium_discoideu/1-136    VTIMVKDIQLARRIRGERA..............  136
119600113|Homo_sapiens/1-122              LTIMPKEIQLARRIQGKRA..............  122
296206054|Callithrix_jacchus/1-136        VTIMPKDIRLAHCIRGESA..............  136
296208977|Callithrix_jacchus/1-136        VTIMPKDIQLACRIRGERA..............  136
296236719|Callithrix_jacchus/1-136        VTIMPKDIQLARRIRGERA..............  136
281200653|Polysphondylium_pallid/1-135    VTIMVKDVQLAKRIRGERA..............  135
296813525|Arthroderma_otae/1-136          VTIQQKDIHLARRLRGERS..............  136
302661231|Trichophyton_verrucosu/1-136    VTIQQKDIHLARRLRGERS..............  136
311345858|Arthroderma_gypseum/1-136       VTIQQKDIHLARRLRGERS..............  136
268575164|Caenorhabditis_briggsa/1-136    VTIMPKDVQLARRIRGERT..............  136
187023595|Caenorhabditis_briggsa/1-136    VTIMPKDVQLARRIRGERT..............  136
109019309|Macaca_mulatta/1-136            VTIMPKDIQLARRIRGERA..............  136
66826875|Dictyostelium_discoideu/1-136    VTIMVKDIQLARRIRGERA..............  136
74858186|Dictyostelium_discoideu/1-136    VTIMVKDIQLARRIRGERA..............  136
213401633|Schizosaccharomyces_ja/1-137    VTIQPKDVQLARRLRGERS..............  137
122076|Schizosaccharomyces_pombe/1-136    VTIQPKDVQLARRLRGERS..............  136
19112359|Schizosaccharomyces_pom/1-136    VTIQPKDVQLARRLRGERS..............  136
122065|Schizosaccharomyces_pombe/1-136    VTIQPKDVQLARRLRGERS..............  136
consensus                                 VTI**KD**LARR*RGER*
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

```
logo                                   4 MARTKQTARK  STGGKAPRKQLASKA ARKSA  P V S GGVKKPH RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQEAVEAYLVSLFEDTNLCAIHAKR 4
                                       3                                                                                                 3
                                       2                                                                                                 2
                                       1                                                                                                 1
50423783|Debaryomyces_hansenii/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.SGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQEAVEAYLVSLFEDTNLCAIHAKR   117
126275595|Scheffersomyces_stipit/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.SGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQEAVEAYLVSLFEDTNLCAIHAKR   117
260940361|Clavispora_lusitaniae/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.SGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQEAVEAYLVSLFEDTNLCAIHAKR   117
74601609|Debaryomyces_hansenii/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.SGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQEAVEAYLVSLFEDTNLCAIHAKR   117
156630829|Scheffersomyces_stipit/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.SGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQEAVEAYLVSLFEDTNLCAIHAKR   117
146421274|Meyerozyma_guilliermon/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQEAVEAYLVSLFEDTNLCAIHAKR   117
156630828|Meyerozyma_guilliermon/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQEAVEAYLVSLFEDTNLCAIHAKR   117
68472183|Candida_albicans/1-136        ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.SGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQEAVEAYLVGLFEDTNLCAIHAKR   117
241953761|Candida_dubliniensis/1-136  ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.SGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQEAVEAYLVGLFEDTNLCAIHAKR   117
255732848|Candida_tropicalis/1-136    ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.SGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQEAVEAYLVGLFEDTNLCAIHAKR   117
74627399|Candida_albicans/1-136        ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.SGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQEAVEAYLVGLFEDTNLCAIHAKR   117
238881095|Candida_albicans/1-136       ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.SGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQEAVEAYLVGLFEDTNLCAIHAKR   117
149242852|Lodderomyces_elongispo/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.SGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQEAVEAYLVGLFEDTNLCAIHAKR   117
156630827|Lodderomyces_elongispo/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.V.SGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQEAVEAYLVGLFEDTNLCAIHAKR   117
21668068|Candida_glabrata/1-136        ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR   117
6319482|Saccharomyces_cerevisiae/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR   117
45187671|Ashbya_gossypii/1-136         ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR   117
50285851|Candida_glabrata/1-136        ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR   117
50309473|Kluyveromyces_lactis/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR   117
156843059|Vanderwaltozyma_polysp/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR   117
consensus                              MARTKQTARK  STGGKAPRKQLASKA ARKSA  P * *GGVKKPH RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFK*DLRFQSSAIGALQE*VEAYLV*LFEDTNL*AIHAKR

logo                                   4 VTIQKKDIQLARRLRGERS 4
                                       3                     3
                                       2                     2
                                       1                     1
50423783|Debaryomyces_hansenii/1-136   VTIQKKDIQLARRLRGERS.............   136
126275595|Scheffersomyces_stipit/1-136 VTIQKKDIQLARRLRGERS.............   136
260940361|Clavispora_lusitaniae/1-136  VTIQKKDIQLARRLRGERS.............   136
74601609|Debaryomyces_hansenii/1-136   VTIQKKDIQLARRLRGERS.............   136
156630829|Scheffersomyces_stipit/1-136 VTIQKKDIQLARRLRGERS.............   136
146421274|Meyerozyma_guilliermon/1-136 VTIQKKDIQLARRLRGERS.............   136
156630828|Meyerozyma_guilliermon/1-136 VTIQKKDIQLARRLRGERS.............   136
68472183|Candida_albicans/1-136        VTIQKKDMQLARRLRGERS.............   136
241953761|Candida_dubliniensis/1-136   VTIQKKDMQLARRLRGERS.............   136
255732848|Candida_tropicalis/1-136     VTIQKKDMQLARRLRGERS.............   136
74627399|Candida_albicans/1-136        VTIQKKDMQLARRLRGERS.............   136
238881095|Candida_albicans/1-136       VTIQKKDMQLARRLRGERS.............   136
149242852|Lodderomyces_elongispo/1-136 VTIQKKDIQLARRLRGERS.............   136
156630827|Lodderomyces_elongispo/1-136 VTIQKKDIQLARRLRGERS.............   136
21668068|Candida_glabrata/1-136        VTIQKNDIKLARRLRGERS.............   136
6319482|Saccharomyces_cerevisiae/1-136 VTIQKKDIKLARRLRGERS.............   136
45187671|Ashbya_gossypii/1-136         VTIQKKDIKLARRLRGERS.............   136
50285851|Candida_glabrata/1-136        VTIQKKDIKLARRLRGERS.............   136
50309473|Kluyveromyces_lactis/1-136    VTIQKKDIKLARRLRGERS.............   136
156843059|Vanderwaltozyma_polysp/1-136 VTIQKKDIKLARRLRGERS.............   136
consensus                              VTIQKKD**LARRLRGERS
```

X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

```
logo                                   4 MARTKQTARK STGGKAPRKQLASKA ARKSA P S TGGVKKPH RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR 4
                                       3                                                                                                                 3
                                       2                                                                                                                 2
                                       1                                                                                                                 1
254576961|Zygosaccharomyces_roux/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR 117
255718433|Lachancea_thermotolera/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR 117
48427853|Zygosaccharomyces_baili/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR 117
48428921|Saccharomyces_cerevisia/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR 117
48428922|Kluyveromyces_lactis/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR 117
51701461|Eremothecium_gossypii/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR 117
151944511|Saccharomyces_cerevisi/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR 117
190408818|Saccharomyces_cerevisi/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR 117
238936881|Lachancea_thermotolera/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR 117
238937356|Zygosaccharomyces_roux/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR 117
256269486|Saccharomyces_cerevisi/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR 117
259144855|Saccharomyces_cerevisi/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR 117
45439479|Saccharomyces_cerevisia/1-134 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLAAIHAKR 117
254569782|Pichia_pastoris/1-137 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.-AAGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR 118
238034212|Pichia_pastoris/1-137 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.-AAGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR 118
50408553|Debaryomyces_hansenii/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR 117
126137890|Scheffersomyces_stipit/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR 117
146413769|Meyerozyma_guilliermon/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR 117
260947298|Clavispora_lusitaniae/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR 117
74602498|Debaryomyces_hansenii/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR 117
consensus                              MARTKQTARK  STGGKAPRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNL*AIHAKR

logo                                   4 VTIQKKDIKLARRLRGERS 4
                                       3                     3
                                       2                     2
                                       1                     1
254576961|Zygosaccharomyces_roux/1-136 VTIQKKDIKLARRLRGERS..............  136
255718433|Lachancea_thermotolera/1-136 VTIQKKDIKLARRLRGERS..............  136
48427853|Zygosaccharomyces_baili/1-136 VTIQKKDIKLARRLRGERS..............  136
48428921|Saccharomyces_cerevisia/1-136 VTIQKKDIKLARRLRGERS..............  136
48428922|Kluyveromyces_lactis/1-136 VTIQKKDIKLARRLRGERS..............  136
51701461|Eremothecium_gossypii/1-136 VTIQKKDIKLARRLRGERS..............  136
151944511|Saccharomyces_cerevisi/1-136 VTIQKKDIKLARRLRGERS..............  136
190408818|Saccharomyces_cerevisi/1-136 VTIQKKDIKLARRLRGERS..............  136
238936881|Lachancea_thermotolera/1-136 VTIQKKDIKLARRLRGERS..............  136
238937356|Zygosaccharomyces_roux/1-136 VTIQKKDIKLARRLRGERS..............  136
256269486|Saccharomyces_cerevisi/1-136 VTIQKKDIKLARRLRGERS..............  136
259144855|Saccharomyces_cerevisi/1-136 VTIQKKDIKLARRLRGERS..............  136
45439479|Saccharomyces_cerevisia/1-134 VTIQKKDIKLARRLRGE...............  134
254569782|Pichia_pastoris/1-137 VTIQKKDILLARRLRGERS..............  137
238034212|Pichia_pastoris/1-137 VTIQKKDILLARRLRGERS..............  137
50408553|Debaryomyces_hansenii/1-136 VTIQKKDIQLARRLRGERS..............  136
126137890|Scheffersomyces_stipit/1-136 VTIQKKDIQLARRLRGERS..............  136
146413769|Meyerozyma_guilliermon/1-136 VTIQKKDIQLARRLRGERS..............  136
260947298|Clavispora_lusitaniae/1-136 VTIQKKDIQLARRLRGERS..............  136
74602498|Debaryomyces_hansenii/1-136 VTIQKKDIQLARRLRGERS..............  136
consensus                              VTIQKKDI*LARRLRGERS
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
156630825|Meyerozyma_guilliermon/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   117
156630826|Scheffersomyces_stipit/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   117
68484797|Candida_albicans/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEAVEAYLVGLFEDTNLCAIHAKR   117
241948697|Candida_dubliniensis/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEAVEAYLVGLFEDTNLCAIHAKR   117
255721921|Candida_tropicalis/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEAVEAYLVGLFEDTNLCAIHAKR   117
74679768|Candida_albicans/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEAVEAYLVGLFEDTNLCAIHAKR   117
238879108|Candida_albicans/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEAVEAYLVGLFEDTNLCAIHAKR   117
149239286|Lodderomyces_elongispo/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEAVEAYLVGLFEDTNLCAIHAKR   117
156630824|Lodderomyces_elongispo/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEAVEAYLVGLFEDTNLCAIHAKR   117
60543066|Conocephalum_conicum/1-134   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYLPGTVALREIRRYE.STDLHIRKLPFQRLVREIAHDFKSDLRFQSSAIGAFQESVESYLVSLFEDTNLCAIHAKR   115
60543078|Marchantia_polymorpha/1-133   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIGRYQKSTELLIRKLPFQRL...IAQDFKSDLRFQSSAIGALQESVESYLVSFLEDTNLCAIHAKR   114
60543036|Conocephalum_supradecom/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLASLFEDTNLCAIHAKR   117
60543028|Conocephalum_conicum/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.F.TGGVKATH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEGTNLCAIHAKR   117
57165671|Calonectria_sumatrensis/1-106   ......................................LASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKATELVIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVQSYLVSLFEDTNLCAIHAKR   97
114147054|Cercospora_rodmanii/1-107   ...............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTERRIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
119186681|Coccidioides_immitis/1-136   ...............MARTKQTARK..STGGKAPRKQTAAKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   117
258563392|Uncinocarpus_reesii/1-136   ...............MARTKQTARK..STGGKAPRKQTAAKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   117
303317588|Coccidioides_posadasii/1-136   ...............MARTKQTARK..STGGKAPRKQTAAKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   117
121922114|Coccidioides_immitis/1-136   ...............MARTKQTARK..STGGKAPRKQTAAKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   117
60543110|Conocephalum_conicum/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKTA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDFRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   117
consensus                                MARTKQTARK  STGGKAPRKQLASKA ARK*A  P S TGGVKKPH RYKPGTVALREIRR*QKSTELLIRKLPFQRLVREIAQDFK*DLRFQSSAIGALQE*VE*YLV*LFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
156630825|Meyerozyma_guilliermon/1-136   VTIQKKDIQLARRLRGERS..............   136
156630826|Scheffersomyces_stipit/1-136   VTIQKKDIQLARRLRGERS..............   136
68484797|Candida_albicans/1-136   VTIQKKDMQLARRLRGERS..............   136
241948697|Candida_dubliniensis/1-136   VTIQKKDMQLARRLRGERS..............   136
255721921|Candida_tropicalis/1-136   VTIQKKDMQLARRLRGERS..............   136
74679768|Candida_albicans/1-136   VTIQKKDMQLARRLRGERS..............   136
238879108|Candida_albicans/1-136   VTIQKKDMQLARRLRGERS..............   136
149239286|Lodderomyces_elongispo/1-136   VTIQKKDIQLARRLRGERS..............   136
156630824|Lodderomyces_elongispo/1-136   VTIQKKDIQLARRLRGERS..............   136
60543066|Conocephalum_conicum/1-134   VTIQSKDIQLARRLRGERN..............   134
60543078|Marchantia_polymorpha/1-133   VTIQSKDIQLARRLRGERN..............   133
60543036|Conocephalum_supradecom/1-136   VTIQSKDIQLARRLRGERN..............   136
60543028|Conocephalum_conicum/1-136   VTIQSKDIQLARRLRGERN..............   136
57165671|Calonectria_sumatrensis/1-106   VTIQSKDIQ......................   106
114147054|Cercospora_rodmanii/1-107   VT............................   107
119186681|Coccidioides_immitis/1-136   VTIQSKDIQLARRLRGERS..............   136
258563392|Uncinocarpus_reesii/1-136   VTIQSKDIQLARRLRGERS..............   136
303317588|Coccidioides_posadasii/1-136   VTIQSKDIQLARRLRGERS..............   136
121922114|Coccidioides_immitis/1-136   VTIQSKDIQLARRLRGERS..............   136
60543110|Conocephalum_conicum/1-136   VTIQSKDIQLARRLRGERN..............   136
consensus                                VTIQ*KD*QLARRLRGER*
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
60543068|Conocephalum_conicum/1-136      ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTGLLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESSYLVSLFEDTDLCAIHAKR     117
60543032|Conocephalum_conicum/1-136      ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKTGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIVALQESVESSYLVSLFEDTNLCAIHAKR     117
114147042|Cercospora_rodmanii/1-107      ..........................GGKAPRKQLASKA.ARKSA..P.S.PGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     105
63147686|Cercospora_agavicola/1-107      ..........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVCEIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     105
56787454|Zasmidium_citri/1-110            ..........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPP.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     105
77540146|Cercospora_zeina/1-110           ..........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RSKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     105
294957371|Botryosphaeria_dothide/1-111   .......................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     108
294957399|Macrophomina_phaseolin/1-111   .......................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     108
294957401|Neofusicoccum_mangifer/1-111   .......................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     108
294957407|Diplodia_seriata/1-111          .......................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     108
294957409|Sphaeropsis_sapinea/1-111      .......................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     108
294957421|Diplodia_mutila/1-111           .......................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     108
294957429|Lasiodiplodia_theobrom/1-111   .......................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     108
294957435|Neofusicoccum_parvum/1-111     .......................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     108
294957441|Neofusicoccum_ribis/1-111       .......................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     108
294957487|Neofusicoccum_arbuti/1-111      .......................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     108
294957499|Neofusicoccum_andinum/1-111     .......................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     108
294957501|Neofusicoccum_nonquaes/1-111    .......................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     108
294957521|Spencermartinsia_vitic/1-111    .......................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     108
294957525|Botryosphaeria_iberica/1-111    .......................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     108
consensus                                                        K  STGGKAPRK*LASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR

logo

60543068|Conocephalum_conicum/1-136      VTIQSKDIQLARRLRGERN.............     136
60543032|Conocephalum_conicum/1-136      VTIQSKDIQLARRLRGERN.............     136
114147042|Cercospora_rodmanii/1-107      VT..............................     107
63147686|Cercospora_agavicola/1-107      VT..............................     107
56787454|Zasmidium_citri/1-110           VTIQS...........................     110
77540146|Cercospora_zeina/1-110          VTIQS...........................     110
294957371|Botryosphaeria_dothide/1-111   VTI.............................     111
294957399|Macrophomina_phaseolin/1-111   VTI.............................     111
294957401|Neofusicoccum_mangifer/1-111   VTI.............................     111
294957407|Diplodia_seriata/1-111         VTI.............................     111
294957409|Sphaeropsis_sapinea/1-111      VTI.............................     111
294957421|Diplodia_mutila/1-111          VTI.............................     111
294957429|Lasiodiplodia_theobrom/1-111   VTI.............................     111
294957435|Neofusicoccum_parvum/1-111     VTI.............................     111
294957441|Neofusicoccum_ribis/1-111      VTI.............................     111
294957487|Neofusicoccum_arbuti/1-111     VTI.............................     111
294957499|Neofusicoccum_andinum/1-111    VTI.............................     111
294957501|Neofusicoccum_nonquaes/1-111   VTI.............................     111
294957521|Spencermartinsia_vitic/1-111   VTI.............................     111
294957525|Botryosphaeria_iberica/1-111   VTI.............................     111
consensus                                VTI
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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294957527|Dothiorella_sarmentoru/1-111   ........................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
294957533|Dichomera_eucalypti/1-111      ........................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
294957539|Neofusicoccum_mediterr/1-111   ........................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
294957627|Neofusicoccum_australe/1-111   ........................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
294957631|Neofusicoccum_luteum/1-111     ........................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
294957633|Dichomera_versiformis/1-111    ........................K..STGGKAPRKALASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
157277274|Cladosporium_subtiliss/1-111   ........................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSVIGALQESVEAYLVSLFEDTNLCAIHAKR   108
157277278|Cladosporium_subtiliss/1-112   ........................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYMPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
67516903|Aspergillus_nidulans/1-141     ..........MARTKQTARKSSLCK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   122
27808292|Lewia_infectoria/1-119          ........................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTKLCAIHAKR   107
27808278|Lewia_infectoria/1-119          ........................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKP   107
157277238|Cladosporium_macrocarp/1-101   ........................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNL.......   101
110628084|Passalora_sp./1-110            .........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
157277246|Cladosporium_ossifragi/1-103   .........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHA..   103
157277262|Cladosporium_cf./1-106         ........................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHA..   106
157277276|Cladosporium_subtiliss/1-106   ........................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHA..   106
163915147|Xenopus_(Silurana)/1-136       ..............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   117
110628132|Davidiella_tassiana/1-109      ............................VKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   104
157277144|Cladosporium_bruhnei/1-97      ...........................CGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTN........    97
157277272|Cladosporium_cf./1-109          ...........................CGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
consensus                                                            *  **GGKAPRK*LASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHA**

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294957527|Dothiorella_sarmentoru/1-111   VTI.............................   111
294957533|Dichomera_eucalypti/1-111      VTI.............................   111
294957539|Neofusicoccum_mediterr/1-111   VTI.............................   111
294957627|Neofusicoccum_australe/1-111   VTI.............................   111
294957631|Neofusicoccum_luteum/1-111     VTI.............................   111
294957633|Dichomera_versiformis/1-111    VTI.............................   111
157277274|Cladosporium_subtiliss/1-111   VTI.............................   111
157277278|Cladosporium_subtiliss/1-112   VTIQ............................   112
67516903|Aspergillus_nidulans/1-141      VTIQSKDIQLARRLRGERS.............   141
27808292|Lewia_infectoria/1-119          VTIQSKDIQLAR....................   119
27808278|Lewia_infectoria/1-119          VTIQSKDIQLPR....................   119
157277238|Cladosporium_macrocarp/1-101   ................................   101
110628084|Passalora_sp./1-110            VIIQS...........................   110
157277246|Cladosporium_ossifragi/1-103   ................................   103
157277262|Cladosporium_cf./1-106         ................................   106
157277276|Cladosporium_subtiliss/1-106   ................................   106
163915147|Xenopus_(Silurana)/1-136       VTIQSKDIQLARRLRGERS.............   136
110628132|Davidiella_tassiana/1-109      VTIQS...........................   109
157277144|Cladosporium_bruhnei/1-97      ................................    97
157277272|Cladosporium_cf./1-109         VTIQ............................   109
consensus                                ***
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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157277270|Cladosporium_cf./1-111      .........................SICGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  107
133917364|Botrytis_elliptica/1-100    .......................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTN........  100
133917384|Botryotinia_fuckeliana/1-100 .......................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTN........  100
133917396|Botryotinia_fuckeliana/1-100 .......................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTN........  100
133917404|Botrytis_tulipae/1-100      .......................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTN........  100
81239355|Cercospora_apiicola/1-108   ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
61695908|Cercospora_apii/1-107       ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
61695928|Cercospora_beticola/1-107   ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
61695958|Cercospora_apiicola/1-107   ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
110628082|Passalora_sp./1-107        ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
110628086|Passalora_sp./1-107        ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
110628088|Passalora_sp./1-107        ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
110628092|Passalora_sp./1-107        ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
110628108|Pseudocercospora_sp./1-107 ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
110628110|Pseudocercospora_sp./1-107 ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
110628112|Pseudocercospora_sp./1-107 ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
110628114|Pseudocercospora_sp./1-107 ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
110628116|Pseudocercospora_sp./1-107 ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
110628118|Pseudocercospora_sp./1-107 ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
110628124|Septoria_sp./1-107         ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
consensus                                                    GGKAPRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR
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157277270|Cladosporium_cf./1-111      VTIQ...........................  111
133917364|Botrytis_elliptica/1-100    ...............................  100
133917384|Botryotinia_fuckeliana/1-100 ..............................  100
133917396|Botryotinia_fuckeliana/1-100 ..............................  100
133917404|Botrytis_tulipae/1-100      ...............................  100
81239355|Cercospora_apiicola/1-108   VTI............................  108
61695908|Cercospora_apii/1-107       VT.............................  107
61695928|Cercospora_beticola/1-107   VT.............................  107
61695958|Cercospora_apiicola/1-107   VT.............................  107
110628082|Passalora_sp./1-107        VT.............................  107
110628086|Passalora_sp./1-107        VT.............................  107
110628088|Passalora_sp./1-107        VT.............................  107
110628092|Passalora_sp./1-107        VT.............................  107
110628108|Pseudocercospora_sp./1-107 VT.............................  107
110628110|Pseudocercospora_sp./1-107 VT.............................  107
110628112|Pseudocercospora_sp./1-107 VT.............................  107
110628114|Pseudocercospora_sp./1-107 VT.............................  107
110628116|Pseudocercospora_sp./1-107 VT.............................  107
110628118|Pseudocercospora_sp./1-107 VT.............................  107
110628124|Septoria_sp./1-107         VT.............................  107
consensus                            VT
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
114147002|Cercospora_canescens/1-107   ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
114147010|Cercospora_kikuchii/1-107     ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
114147014|Cercospora_penzigii/1-107     ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
114147034|Cercospora_physalidis/1-107  ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
114147046|Cercospora_rodmanii/1-107    ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
157277150|Cladosporium_bruhnei/1-111   ............................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   107
157277208|Davidiella_tassiana/1-111    ............................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   107
171190711|Stenella_musae/1-106          ........................................KQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    99
110628094|Passalora_sp./1-111           ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
110628098|Passalora_sp./1-111           ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
114147004|Cercospora_canescens/1-110   ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
114147024|Cercospora_penzigii/1-110    ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
114147038|Cercospora_piaropi/1-110     ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
114147040|Cercospora_rodmanii/1-110    ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
125863460|Alternaria_tenuissima/1-119  ............................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   107
110628080|Passalora_sp./1-112           ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
110628096|Passalora_sp./1-112           ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
110628100|Passalora_sp./1-112           ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
110628104|Passalora_sp./1-112           ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
157277192|Davidiella_tassiana/1-111    ........................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
consensus                                                        GGKAPRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR

logo

114147002|Cercospora_canescens/1-107   VT.............................   107
114147010|Cercospora_kikuchii/1-107     VT.............................   107
114147014|Cercospora_penzigii/1-107     VT.............................   107
114147034|Cercospora_physalidis/1-107   VT.............................   107
114147046|Cercospora_rodmanii/1-107     VT.............................   107
157277150|Cladosporium_bruhnei/1-111    VTIQ...........................   111
157277208|Davidiella_tassiana/1-111     VTIQ...........................   111
171190711|Stenella_musae/1-106          VTIQSKD........................   106
110628094|Passalora_sp./1-111           VTIQSK.........................   111
110628098|Passalora_sp./1-111           VTIQSK.........................   111
114147004|Cercospora_canescens/1-110    VTIQS..........................   110
114147024|Cercospora_penzigii/1-110     VTIQS..........................   110
114147038|Cercospora_piaropi/1-110      VTIQS..........................   110
114147040|Cercospora_rodmanii/1-110     VTIQS..........................   110
125863460|Alternaria_tenuissima/1-119   VTIQSKDIQLRP...................   119
110628080|Passalora_sp./1-112           VTIQSKD........................   112
110628096|Passalora_sp./1-112           VTIQSKD........................   112
110628100|Passalora_sp./1-112           VTIQSKD........................   112
110628104|Passalora_sp./1-112           VTIQSKD........................   112
157277192|Davidiella_tassiana/1-111     VTI............................   111
consensus                               VT***
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X non conserved
X similar
X ≥50% conserved
X ≥80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
157277286|Cladosporium_variabile/1-111   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
148963526|Cladosporium_bruhnei/1-112      .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
157277184|Cladosporium_aff./1-112         .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
157277190|Cladosporium_herbaroid/1-112   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
157277196|Davidiella_tassiana/1-112      .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
157277218|Davidiella_macrospora/1-112    .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
157277222|Cladosporium_macrocarp/1-112   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
157277248|Cladosporium_pseudirid/1-112   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
157277250|Cladosporium_ramotenel/1-112   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
157277258|Cladosporium_spinulosu/1-112   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
157277280|Cladosporium_tenellum/1-112    .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
110628106|Passalora_sp./1-112            ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
110628120|Pseudocercospora_sp./1-112     ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
110628122|Pseudocercospora_sp./1-112     ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
41056334|Cephalosporium_gramineu/1-112   .......................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   107
56787430|Cercospora_apii/1-110            ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
56787442|Cercospora_acaciae-mang/1-110   ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
56787456|Zasmidium_citri/1-110            ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
56787460|Mycosphaerella_colombie/1-110   ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
56787466|Mycosphaerella_konae/1-110      ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   105
consensus                                                      *  **GGKAPRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR

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157277286|Cladosporium_variabile/1-111   VTI.........................   111
148963526|Cladosporium_bruhnei/1-112     VTIQ........................   112
157277184|Cladosporium_aff./1-112        VTIQ........................   112
157277190|Cladosporium_herbaroid/1-112   VTIQ........................   112
157277196|Davidiella_tassiana/1-112      VTIQ........................   112
157277218|Davidiella_macrospora/1-112    VTIQ........................   112
157277222|Cladosporium_macrocarp/1-112   VTIQ........................   112
157277248|Cladosporium_pseudirid/1-112   VTIQ........................   112
157277250|Cladosporium_ramotenel/1-112   VTIQ........................   112
157277258|Cladosporium_spinulosu/1-112   VTIQ........................   112
157277280|Cladosporium_tenellum/1-112    VTIQ........................   112
110628106|Passalora_sp./1-112            VTIQSKD.....................   112
110628120|Pseudocercospora_sp./1-112     VTIQSKD.....................   112
110628122|Pseudocercospora_sp./1-112     VTIQSKD.....................   112
41056334|Cephalosporium_gramineu/1-112   VTIQS.......................   112
56787430|Cercospora_apii/1-110           VTIQS.......................   110
56787442|Cercospora_acaciae-mang/1-110   VTIQS.......................   110
56787456|Zasmidium_citri/1-110           VTIQS.......................   110
56787460|Mycosphaerella_colombie/1-110   VTIQS.......................   110
56787466|Mycosphaerella_konae/1-110      VTIQS.......................   110
consensus                                VTIQ
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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56787470|Mycosphaerella_sp./1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
56787472|Mycosphaerella_sp./1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
56787474|Mycosphaerella_sp./1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
56787476|Mycosphaerella_thailand/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
61695956|Cercospora_apiicola/1-110                                                                                
77540124|Cercospora_sp./1-110                                                                                
77540126|Cercospora_zeae-maydis/1-110                                                                                
77540144|Cercospora_zeina/1-110                                                                                
157277176|Cladosporium_bruhnei/1-122                                                                                
157277186|Cladosporium_aff./1-122                                                                                
157277188|Cladosporium_aff./1-122                                                                                
157277232|Cladosporium_macrocarp/1-122                                                                                
157277202|Davidiella_tassiana/1-121                                                                                
27808202|Alternaria_arborescens/1-119                                                                                
27808204|Alternaria_alternata/1-119                                                                                
27808256|Alternaria_sp./1-119                                                                                
27808258|Alternaria_sp./1-119                                                                                
27808262|Alternaria_sp./1-119                                                                                
27808264|Alternaria_tenuissima/1-119                                                                                
27808266|Lewia_infectoria/1-119                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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56787470|Mycosphaerella_sp./1-110                                                                                
56787472|Mycosphaerella_sp./1-110                                                                                
56787474|Mycosphaerella_sp./1-110                                                                                
56787476|Mycosphaerella_thailand/1-110                                                                                
61695956|Cercospora_apiicola/1-110                                                                                
77540124|Cercospora_sp./1-110                                                                                
77540126|Cercospora_zeae-maydis/1-110                                                                                
77540144|Cercospora_zeina/1-110                                                                                
157277176|Cladosporium_bruhnei/1-122                                                                                
157277186|Cladosporium_aff./1-122                                                                                
157277188|Cladosporium_aff./1-122                                                                                
157277232|Cladosporium_macrocarp/1-122                                                                                
157277202|Davidiella_tassiana/1-121                                                                                
27808202|Alternaria_arborescens/1-119                                                                                
27808204|Alternaria_alternata/1-119                                                                                
27808256|Alternaria_sp./1-119                                                                                
27808258|Alternaria_sp./1-119                                                                                
27808262|Alternaria_sp./1-119                                                                                
27808264|Alternaria_tenuissima/1-119                                                                                
27808266|Lewia_infectoria/1-119                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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157277164|Cladosporium_bruhnei/1-119      .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  108
110628102|Passalora_sp./1-110          ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
157277268|Cladosporium_cf./1-118        .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  108
110628126|Septoria_sp./1-112            ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
110628128|Septoria_sp./1-112            ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  105
171190607|Dissoconium_musae/1-111       ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  104
171190611|Mycosphaerella_colombi/1-111  ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  104
171190613|Dissoconium_commune/1-111     ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  104
171190617|Mycosphaerella_eumusae/1-111  ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  104
171190637|Pseudocercospora_fijie/1-111  ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  104
171190651|Mycosphaerella_mozambi/1-111  ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  104
171190655|Mycosphaerella_musae/1-111    ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  104
171190663|Mycosphaerella_musicol/1-111  ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  104
171190681|Mycosphaerella_thailan/1-111  ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  104
171190689|Passalora_loranthi/1-111      ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  104
171190693|Pseudocercospora_assam/1-111  ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  104
171190695|Pseudocercospora_indon/1-111  ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  104
171190697|Pseudocercospora_longi/1-111  ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  104
171190701|Stenella_musae/1-111          ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  104
171190621|Mycosphaerella_eumusae/1-110  ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR  104
consensus                                                          GKAPRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR

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157277164|Cladosporium_bruhnei/1-119      VTIQSKDIQLA.......................  119
110628102|Passalora_sp./1-110             VTIQS.......................      110
157277268|Cladosporium_cf./1-118          VTIQSKDIQL........................  118
110628126|Septoria_sp./1-112              VTIQSKD.......................    112
110628128|Septoria_sp./1-112              VTIQSKD.......................    112
171190607|Dissoconium_musae/1-111         VTIQSKD.......................    111
171190611|Mycosphaerella_colombi/1-111    VTIQSKD.......................    111
171190613|Dissoconium_commune/1-111       VTIQSKD.......................    111
171190617|Mycosphaerella_eumusae/1-111    VTIQSKD.......................    111
171190637|Pseudocercospora_fijie/1-111    VTIQSKD.......................    111
171190651|Mycosphaerella_mozambi/1-111    VTIQSKD.......................    111
171190655|Mycosphaerella_musae/1-111      VTIQSKD.......................    111
171190663|Mycosphaerella_musicol/1-111    VTIQSKD.......................    111
171190681|Mycosphaerella_thailan/1-111    VTIQSKD.......................    111
171190689|Passalora_loranthi/1-111        VTIQSKD.......................    111
171190693|Pseudocercospora_assam/1-111    VTIQSKD.......................    111
171190695|Pseudocercospora_indon/1-111    VTIQSKD.......................    111
171190697|Pseudocercospora_longi/1-111    VTIQSKD.......................    111
171190701|Stenella_musae/1-111            VTIQSKD.......................    111
171190621|Mycosphaerella_eumusae/1-110    VTIQSK........................    110
consensus                                 VTIQSKD
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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281486476|Cercospora_rodmanii/1-109      ..............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     104
281486474|Cercospora_rodmanii/1-108      ..............................KAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     103
157277142|Cladosporium_bruhnei/1-119    ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     105
157277140|Cladosporium_bruhnei/1-118    ..............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     104
157277182|Cladosporium_aff./1-118       ..............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     104
157277264|Cladosporium_cf./1-118        ..............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     104
157277266|Cladosporium_cf./1-118        ..............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     104
110628090|Passalora_sp./1-103           ...............................PRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     101
171190625|Mycosphaerella_eumusae/1-110  ..............................KAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     103
171190643|Pseudocercospora_fijie/1-110  ..............................KAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     103
157277138|Cladosporium_antarctic/1-109  ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     105
157277148|Cladosporium_bruhnei/1-109    ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     105
157277194|Davidiella_tassiana/1-109     ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     105
157277224|Cladosporium_macrocarp/1-109  ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     105
157277244|Cladosporium_ossifragi/1-109  ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     105
157277252|Cladosporium_ramotenel/1-109  ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     105
154296463|Botryotinia_fuckeliana/1-136  ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
156047837|Sclerotinia_sclerotior/1-136  ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
189211117|Pyrenophora_tritici-re/1-136  ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
121920880|Phaeosphaeria_nodorum/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
consensus                                                          *GKAPRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR

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281486476|Cercospora_rodmanii/1-109      VTIQS.........................     109
281486474|Cercospora_rodmanii/1-108      VTIQS.........................     108
157277142|Cladosporium_bruhnei/1-119     VTIQSKDIQLARRL................     119
157277140|Cladosporium_bruhnei/1-118     VTIQSKDIQLARRL................     118
157277182|Cladosporium_aff./1-118        VTIQSKDIQLARRL................     118
157277264|Cladosporium_cf./1-118         VTIQSKDIQLARRL................     118
157277266|Cladosporium_cf./1-118         VTIQSKDIQLARRL................     118
110628090|Passalora_sp./1-103            VT............................     103
171190625|Mycosphaerella_eumusae/1-110   VTIQSKD.......................     110
171190643|Pseudocercospora_fijie/1-110   VTIQSKD.......................     110
157277138|Cladosporium_antarctic/1-109   VTIQ..........................     109
157277148|Cladosporium_bruhnei/1-109     VTIQ..........................     109
157277194|Davidiella_tassiana/1-109      VTIQ..........................     109
157277224|Cladosporium_macrocarp/1-109   VTIQ..........................     109
157277244|Cladosporium_ossifragi/1-109   VTIQ..........................     109
157277252|Cladosporium_ramotenel/1-109   VTIQ..........................     109
154296463|Botryotinia_fuckeliana/1-136   VTIQSKDIQLARRLRGERG............     136
156047837|Sclerotinia_sclerotior/1-136   VTIQSKDIQLARRLRGERG............     136
189211117|Pyrenophora_tritici-re/1-136   VTIQSKDIQLARRLRGERG............     136
121920880|Phaeosphaeria_nodorum/1-136    VTIQSKDIQLARRLRGERG............     136
consensus                                VTIQ***
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
311321506|Pyrenophora_teres/1-136      ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    117
300295311|Phoma_sp./1-116               ........................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    108
300295315|Phoma_sp./1-116               ........................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    108
300295317|Phoma_sp./1-116               ........................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    108
300295319|Phoma_sp./1-116               ........................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    108
300295327|Phoma_sp./1-116               ........................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    108
300295393|Phoma_sp./1-116               ........................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    108
300295399|Phoma_sp./1-116               ........................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    108
300295567|Phoma_sclerotioides/1-116     ........................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    108
300295619|Phoma_medicaginis/1-116       ........................K..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    108
157277254|Cladosporium_sinuosum/1-109   ..........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    105
157277256|Cladosporium_spinulosu/1-109  ..........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    105
157277260|Cladosporium_subinflat/1-109  ..........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    105
157277282|Cladosporium_tenellum/1-109   ..........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    105
157277290|Davidiella_sp./1-109          ..........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    105
157277292|Davidiella_sp./1-109          ..........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    105
171190615|Mycosphaerella_eumusae/1-107  ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    104
48427861|Ajellomyces_capsulatus/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGAVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    117
70995988|Aspergillus_fumigatus/1-136    ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    117
115492089|Aspergillus_terreus/1-136    ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR    117
consensus                                                  *  **GGKAPRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR

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311321506|Pyrenophora_teres/1-136      VTIQSKDIQLARRLRGERG.............    136
300295311|Phoma_sp./1-116               VTIQSKDI........................    116
300295315|Phoma_sp./1-116               VTIQSKDI........................    116
300295317|Phoma_sp./1-116               VTIQSKDI........................    116
300295319|Phoma_sp./1-116               VTIQSKDI........................    116
300295327|Phoma_sp./1-116               VTIQSKDI........................    116
300295393|Phoma_sp./1-116               VTIQSKDI........................    116
300295399|Phoma_sp./1-116               VTIQSKDI........................    116
300295567|Phoma_sclerotioides/1-116     VTIQSKDI........................    116
300295619|Phoma_medicaginis/1-116       VTIQSKDI........................    116
157277254|Cladosporium_sinuosum/1-109   VTIQ............................    109
157277256|Cladosporium_spinulosu/1-109  VTIQ............................    109
157277260|Cladosporium_subinflat/1-109  VTIQ............................    109
157277282|Cladosporium_tenellum/1-109   VTIQ............................    109
157277290|Davidiella_sp./1-109          VTIQ............................    109
157277292|Davidiella_sp./1-109          VTIQ............................    109
171190615|Mycosphaerella_eumusae/1-107  VTI.............................    107
48427861|Ajellomyces_capsulatus/1-136   VTIQSKDIQLARRLRGERS..............    136
70995988|Aspergillus_fumigatus/1-136    VTIQSKDIQLARRLRGERS..............    136
115492089|Aspergillus_terreus/1-136     VTIQSKDIQLARRLRGERS..............    136
consensus                               VTIQ****
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
119495179|Neosartorya_fischeri/1-136      ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
121701225|Aspergillus_clavatus/1-136      ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
145240329|Aspergillus_niger/1-136          ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
169763208|Aspergillus_oryzae/1-136          ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
212531989|Penicillium_marneffei/1-136      ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
238489087|Aspergillus_flavus/1-136          ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
242774415|Talaromyces_stipitatus/1-136     ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
255941514|Penicillium_chrysogenu/1-136     ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
122080|Emericella_nidulans/1-136            ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
48427850|Aspergillus_fumigatus/1-136        ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
48427851|Penicillium_funiculosum/1-136     ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
94717620|Aspergillus_oryzae/1-136           ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
156630830|Aspergillus_clavatus/1-136       ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
134077327|Aspergillus_niger/1-136          ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
159131503|Aspergillus_fumigatus/1-136       ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
259488987|Aspergillus_nidulans/1-136        ...............MARTKQTARK..STGGKAPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
225681901|Paracoccidioides_brasi/1-136     ...............MARTKQTARK..STGGKVPRKQLASKV.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
226289072|Paracoccidioides_brasi/1-136     ...............MARTKQTARK..STGGKVPRKQLASKV.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
261200849|Ajellomyces_dermatitid/1-137     ...............MARTKQTARK..STGGKVPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
239607232|Ajellomyces_dermatitid/1-137     ...............MARTKQTARK..STGGKVPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR     117
consensus                                  MARTKQTARK  STGGKAPRKQLASKA ARKAA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR

logo                                       VTIQSKDIQLARRLRGERS

119495179|Neosartorya_fischeri/1-136      VTIQSKDIQLARRLRGERS.............     136
121701225|Aspergillus_clavatus/1-136      VTIQSKDIQLARRLRGERS.............     136
145240329|Aspergillus_niger/1-136          VTIQSKDIQLARRLRGERS.............     136
169763208|Aspergillus_oryzae/1-136          VTIQSKDIQLARRLRGERS.............     136
212531989|Penicillium_marneffei/1-136      VTIQSKDIQLARRLRGERS.............     136
238489087|Aspergillus_flavus/1-136          VTIQSKDIQLARRLRGERS.............     136
242774415|Talaromyces_stipitatus/1-136     VTIQSKDIQLARRLRGERS.............     136
255941514|Penicillium_chrysogenu/1-136     VTIQSKDIQLARRLRGERS.............     136
122080|Emericella_nidulans/1-136            VTIQSKDIQLARRLRGERS.............     136
48427850|Aspergillus_fumigatus/1-136        VTIQSKDIQLARRLRGERS.............     136
48427851|Penicillium_funiculosum/1-136     VTIQSKDIQLARRLRGERS.............     136
94717620|Aspergillus_oryzae/1-136           VTIQSKDIQLARRLRGERS.............     136
156630830|Aspergillus_clavatus/1-136       VTIQSKDIQLARRLRGERS.............     136
134077327|Aspergillus_niger/1-136          VTIQSKDIQLARRLRGERS.............     136
159131503|Aspergillus_fumigatus/1-136       VTIQSKDIQLARRLRGERS.............     136
259488987|Aspergillus_nidulans/1-136        VTIQSKDIQLARRLRGERS.............     136
225681901|Paracoccidioides_brasi/1-136     VTIQSKDIQLARRLRGERS.............     136
226289072|Paracoccidioides_brasi/1-136     VTIQSKDIQLARRLRGERS.............     136
261200849|Ajellomyces_dermatitid/1-137     VTIQSKDIQLARRLRGERSS............     137
239607232|Ajellomyces_dermatitid/1-137     VTIQSKDIQLARRLRGERSS............     137
consensus                                  VTIQSKDIQLARRLRGERS
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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154276502|Ajellomyces_capsulatus/1-136   ...............MARTKQTARK..STGGKVPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   117
295660614|Paracoccidioides_brasi/1-136   ...............MARTKQTARK..STGGKVPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   117
225560319|Ajellomyces_capsulatus/1-136   ...............MARTKQTARK..STGGKVPRKQLASKA.ARKAA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   117
60543112|Conocephalum_conicum/1-136     ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRFVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKG   117
60543024|Conocephalum_conicum/1-136     ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRFVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   117
296418581|Tuber_melanosporum/1-136       ...............MARTKQTARK..STGGKAPRKQFSHAV.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   117
295634892|Tuber_melanosporum/1-136       ...............MARTKQTARK..STGGKAPRKQFSHAV.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   117
83595193|Fusarium_guttiforme/1-91        ..............................................RKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLHFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR    91
86450151|Gibberella_circinata/1-105      ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYVVSLFEDTNLCAIHAKR   105
29421778|Fusarium_subglutinans/1-105    ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALXESVESYLVSLFEDTNLCAIHAKR   105
57165673|Calonectria_sumatrensis/1-106  ......................................LASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELVIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR    97
66473523|Alternaria_alternata/1-118     ......................I..ASQHTNITSRLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEAYLVSLFEDTNLCAIHAKR   108
82780170|Verticillium_dahliae/1-108     ...............................TKQT.ARRSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR    96
60543116|Conocephalum_conicum/1-136     ...............MARTKQTARK..STGGKAPRKQLASKG.ARKSA..P.S.TGGVKKPH.HYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   117
56787426|Cladosporium_cladospori/1-110  ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVEVYLVSLFEDTNLCAIHAKR   105
60543050|Conocephalum_supradecom/1-136  ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEPTNLCAIHAKR   117
60543070|Conocephalum_conicum/1-136     ...............MVRTKQTVRK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTDLCAIHAKR   117
45356355|Ophiostoma_quercus/1-134       ................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQXFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
45356371|Ophiostoma_quercus/1-134       ................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGDLQESVESYLVSLFEDTNLCAIHAKR   114
60543030|Conocephalum_conicum/1-136     ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKAH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   117
consensus                                 **********  **GGK*PRKQLASK* ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVE*YLVSLFEDTNLCAIHAKR

logo
154276502|Ajellomyces_capsulatus/1-136   VTIQSKDIQLARRLRGERS..............   136
295660614|Paracoccidioides_brasi/1-136   VTIQSKDIQLARRLRGERS..............   136
225560319|Ajellomyces_capsulatus/1-136   VTIQSKDIQLARRLRGERS..............   136
60543112|Conocephalum_conicum/1-136      VTIQSKDIQLARRLRGERN..............   136
60543024|Conocephalum_conicum/1-136      VTIQSKDIQLARRLRGERN..............   136
296418581|Tuber_melanosporum/1-136       VTIQSKDIQLARRLRGERS..............   136
295634892|Tuber_melanosporum/1-136       VTIQSKDIQLARRLRGERS..............   136
83595193|Fusarium_guttiforme/1-91        ................................    91
86450151|Gibberella_circinata/1-105      ................................   105
29421778|Fusarium_subglutinans/1-105     ................................   105
57165673|Calonectria_sumatrensis/1-106   VTIQSKDIQ........................   106
66473523|Alternaria_alternata/1-118      VTIQSKDIQL.......................   118
82780170|Verticillium_dahliae/1-108      VTIQPKDIQLAR.....................   108
60543116|Conocephalum_conicum/1-136      VTIQSKDIQLARRLRGERN..............   136
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60543050|Conocephalum_supradecom/1-136   VTIQSKEIQLARRLRRERN..............   136
60543070|Conocephalum_conicum/1-136      VTIQSKDIQLARRLRGERN..............   136
45356355|Ophiostoma_quercus/1-134        VTIQSVSFAVSHTLLHLNNY.............   134
45356371|Ophiostoma_quercus/1-134        VTIQSVSFAVSHTLLHLNNY.............   134
60543030|Conocephalum_conicum/1-136      VTIQSKDIQLARRLRGERN..............   136
consensus                                VTIQS*************
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
60543012|Conocephalum_conicum/1-136      ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSPAIGALQESVESYLVSLFEDTNLCAIHAKR     117
60543082|Marchantia_polymorpha/1-136      ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNFCAIHAKR     117
60543018|Conocephalum_conicum/1-136      ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.F.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     117
3016|Neurospora_crassa/1-136            ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGLLQESVESYLVSLFEDTNLCAIHAKR     117
60543014|Conocephalum_conicum/1-136      ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPSQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     117
60543020|Conocephalum_conicum/1-136      ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAFGALQESVESYLVSLFEDTNLCAIHAKR     117
60543052|Conocephalum_supradecom/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSPFEDTNLCAIHAKR     117
60543084|Marchantia_polymorpha/1-136      ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTGLLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     117
12745587|Gibberella_zeae/1-117            ......................GRR..STGGKAPRKQLASKV.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     110
57165627|Calonectria_pacifica/1-115       ...........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     105
300808968|Calonectria_pacifica/1-118      ......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
300808994|Calonectria_eucalypti/1-118     ......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
300808960|Calonectria_naviculata/1-118    ......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
300808952|Calonectria_citri/1-118         ......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
256593676|Cylindrocladium_gracil/1-118    ......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
77921864|Calonectria_pteridis/1-118       ......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
291480747|Calonectria_cerciana/1-118      ......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
291480745|Calonectria_morganii/1-118      ......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
291480736|Calonectria_terrae-reg/1-118    ......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
291480734|Calonectria_queensland/1-118    ......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
consensus                                                         *  STGGKAPRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR

logo

60543012|Conocephalum_conicum/1-136      VTIQSKDIQLARRLRGERN.............     136
60543082|Marchantia_polymorpha/1-136      VTIQSKDIQLARRLRGERN.............     136
60543018|Conocephalum_conicum/1-136      VTIQSKDIQLARRLRGERN.............     136
3016|Neurospora_crassa/1-136             VTIQSKDIQLARRLRGERN.............     136
60543014|Conocephalum_conicum/1-136      VTIQSKDIQLARRLRGERN.............     136
60543020|Conocephalum_conicum/1-136      VTIQSKDIQLARRLRGERN.............     136
60543052|Conocephalum_supradecom/1-136   VTIQSKDIQLARRLRGERN.............     136
60543084|Marchantia_polymorpha/1-136      VTIQSKDIQLARRLRGERN.............     136
12745587|Gibberella_zeae/1-117            VTIQSKD.........................     117
57165627|Calonectria_pacifica/1-115       VTIQSKDSQL......................     115
300808968|Calonectria_pacifica/1-118      VTIQSKDSQL......................     118
300808994|Calonectria_eucalypti/1-118     VTIQSKEIQL......................     118
300808960|Calonectria_naviculata/1-118    VTIQSKEIQL......................     118
300808952|Calonectria_citri/1-118         VTIQSKEIQL......................     118
256593676|Cylindrocladium_gracil/1-118    VTIQSKEIQL......................     118
77921864|Calonectria_pteridis/1-118       VTLQSKDIQL......................     118
291480747|Calonectria_cerciana/1-118      VTIQSKDIQL......................     118
291480745|Calonectria_morganii/1-118      VTIQSKDIQL......................     118
291480736|Calonectria_terrae-reg/1-118    VTIQSKDIQL......................     118
291480734|Calonectria_queensland/1-118    VTIQSKDIQL......................     118
consensus                                 VTIQSKDIQL
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
291480730|Calonectria_pseudorete/1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
291480728|Cylindrocladium_reteau/1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
288903761|Calonectria_sp./1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
288903759|Calonectria_sp./1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
288903757|Calonectria_sp./1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
288903755|Calonectria_sp./1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
288903753|Calonectria_sp./1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
288903751|Calonectria_sp./1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
288903749|Calonectria_sp./1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
288903747|Calonectria_sp./1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
57165661|Calonectria_ilicicola/1-125   ..................KQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   113
309706352|Calonectria_sp./1-126   .................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
82780178|Verticillium_dahliae/1-126   .................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
82780176|Gibellulopsis_nigrescen/1-126   .................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
82780174|Verticillium_albo-atrum/1-126   .................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
82780134|Verticillium_dahliae/1-126   .................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
77921940|Cylindrocladium_gracile/1-126   .................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
77921776|Calonectria_colhounii/1-126   .................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
77921740|Calonectria_clavata/1-126   .................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
57165631|Calonectria_ilicicola/1-126   .................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
consensus                                                *****R  STGGKAPRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
291480730|Calonectria_pseudorete/1-118   VTIQSKDIQL.......................   118
291480728|Cylindrocladium_reteau/1-118   VTIQSKDIQL.......................   118
288903761|Calonectria_sp./1-118   VTIQSKDIQL.......................   118
288903759|Calonectria_sp./1-118   VTIQSKDIQL.......................   118
288903757|Calonectria_sp./1-118   VTIQSKDIQL.......................   118
288903755|Calonectria_sp./1-118   VTIQSKDIQL.......................   118
288903753|Calonectria_sp./1-118   VTIQSKDIQL.......................   118
288903751|Calonectria_sp./1-118   VTIQSKDIQL.......................   118
288903749|Calonectria_sp./1-118   VTIQSKDIQL.......................   118
288903747|Calonectria_sp./1-118   VTIQSKDIQL.......................   118
57165661|Calonectria_ilicicola/1-125   VTIQSKDIQLAR....................   125
309706352|Calonectria_sp./1-126   VTIQSKDIQLAR....................   126
82780178|Verticillium_dahliae/1-126   VTIQSKDIQLAR....................   126
82780176|Gibellulopsis_nigrescen/1-126   VTIQSKDIQLAR....................   126
82780174|Verticillium_albo-atrum/1-126   VTIQSKDIQLAR....................   126
82780134|Verticillium_dahliae/1-126   VTIQSKDIQLAR....................   126
77921940|Cylindrocladium_gracile/1-126   VTIQSKDIQLAR....................   126
77921776|Calonectria_colhounii/1-126   VTIQSKDIQLAR....................   126
77921740|Calonectria_clavata/1-126   VTIQSKDIQLAR....................   126
57165631|Calonectria_ilicicola/1-126   VTIQSKDIQLAR....................   126
consensus                                VTIQSKDIQL**
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
57165625|Calonectria_multiphiali/1-126   ..................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
57165603|Calonectria_colombiensi/1-126   ..................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
57165595|Calonectria_asiatica/1-126   ..................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
15637132|Gibberella_fujikuroi/1-126   ..................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
14582752|Fusarium_proliferatum/1-126   ..................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
12745585|Gibberella_zeae/1-114   ........................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
12745589|Fusarium_pseudograminea/1-118   ....................TARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   111
12745567|Gibberella_zeae/1-118   ....................TARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   111
12745561|Fusarium_cerealis/1-118   ....................TARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   111
57165665|Calonectria_ilicicola/1-124   ....................QTARR..SSGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   112
57165657|Calonectria_ilicicola/1-124   ....................QTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   112
269978663|Fusarium_incarnatum/1-131   ....................QTARX..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   112
269978661|Fusarium_longipes/1-131   ....................QTARX..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   112
269978659|Fusarium_kyushuense/1-131   ....................QTARX..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   112
269978657|Fusarium_equiseti/1-131   ....................QTARX..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   112
269978655|Fusarium_culmorum/1-131   ....................QTARX..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   112
269978653|Fusarium_cerealis/1-131   ....................QTARX..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   112
269978651|Fusarium_camptoceras/1-131   ....................QTARX..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   112
269978649|Fusarium_boothii/1-131   ....................QTARX..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   112
269978647|Fusarium_avenaceum/1-131   ....................QTARX..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   112
consensus                                                    QTAR*  STGGKAPRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
57165625|Calonectria_multiphiali/1-126   VTIQSKDIQLAR.....................   126
57165603|Calonectria_colombiensi/1-126   VTIQSKDIQLAR.....................   126
57165595|Calonectria_asiatica/1-126   VTIQSKDIQLAR.....................   126
15637132|Gibberella_fujikuroi/1-126   VTIQSKDIQLAR.....................   126
14582752|Fusarium_proliferatum/1-126   VTIQSKDIQLAR.....................   126
12745585|Gibberella_zeae/1-114   VTIQSK..........................   114
12745589|Fusarium_pseudograminea/1-118   VTIQSKD.........................   118
12745567|Gibberella_zeae/1-118   VTIQSKD.........................   118
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57165657|Calonectria_ilicicola/1-124   VTIQSKDIQLAR.....................   124
269978663|Fusarium_incarnatum/1-131   VTIQSKDIQLARRLRGERN..............   131
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269978659|Fusarium_kyushuense/1-131   VTIQSKDIQLARRLRGERN..............   131
269978657|Fusarium_equiseti/1-131   VTIQSKDIQLARRLRGERN..............   131
269978655|Fusarium_culmorum/1-131   VTIQSKDIQLARRLRGERN..............   131
269978653|Fusarium_cerealis/1-131   VTIQSKDIQLARRLRGERN..............   131
269978651|Fusarium_camptoceras/1-131   VTIQSKDIQLARRLRGERN..............   131
269978649|Fusarium_boothii/1-131   VTIQSKDIQLARRLRGERN..............   131
269978647|Fusarium_avenaceum/1-131   VTIQSKDIQLARRLRGERN..............   131
consensus                                    VTIQSKDIQLAR
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                   4 MARTKQTARK STGGKAPRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR 4
                                       3                                                                                                                 3
                                       2                                                                                                                 2
                                       1                                                                                                                 1
269978645|Fusarium_armeniacum/1-131    ....................QTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  112
269978643|Fusarium_sp./1-131          ....................QTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  112
310798570|Glomerella_graminicola/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
289620259|Sordaria_macrospora/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
209570450|Glomerella_graminicola/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
60543072|Conocephalum_conicum/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
60543034|Conocephalum_supradecom/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
156630832|Magnaporthe_grisea/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
122064231|Gibberella_zeae/1-136       ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
74607926|Chaetomium_globosum/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
73919917|Marchantia_polymorpha/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
48427852|Hypocrea_jecorina/1-136     ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
20981693|Neurospora_crassa/1-136     ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
302900458|Nectria_haematococca/1-136 ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
171690212|Podospora_anserina/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
145610501|Magnaporthe_oryzae/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
116204825|Chaetomium_globosum/1-136   ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
85077297|Neurospora_crassa/1-136     ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
60543104|Conocephalum_conicum/1-136   ...............MARTKQTSRK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  117
288903745|Calonectria_sp./1-118       ........................B..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  108
consensus                              MARTKQTARK  STGGKAPRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR

logo                                   4 VTIQSKDIQLARRLRGERN 4
                                       3                     3
                                       2                     2
                                       1                     1
269978645|Fusarium_armeniacum/1-131    VTIQSKDIQLARRLRGERN.............  131
269978643|Fusarium_sp./1-131           VTIQSKDIQLARRLRGERN.............  131
310798570|Glomerella_graminicola/1-136 VTIQSKDIQLARRLRGERN.............  136
289620259|Sordaria_macrospora/1-136    VTIQSKDIQLARRLRGERN.............  136
209570450|Glomerella_graminicola/1-136 VTIQSKDIQLARRLRGERN.............  136
60543072|Conocephalum_conicum/1-136    VTIQSKDIQLARRLRGERN.............  136
60543034|Conocephalum_supradecom/1-136 VTIQSKDIQLARRLRGERN.............  136
156630832|Magnaporthe_grisea/1-136    VTIQSKDIQLARRLRGERN.............  136
122064231|Gibberella_zeae/1-136        VTIQSKDIQLARRLRGERN.............  136
74607926|Chaetomium_globosum/1-136    VTIQSKDIQLARRLRGERN.............  136
73919917|Marchantia_polymorpha/1-136  VTIQSKDIQLARRLRGERN.............  136
48427852|Hypocrea_jecorina/1-136      VTIQSKDIQLARRLRGERN.............  136
20981693|Neurospora_crassa/1-136      VTIQSKDIQLARRLRGERN.............  136
302900458|Nectria_haematococca/1-136  VTIQSKDIQLARRLRGERN.............  136
171690212|Podospora_anserina/1-136    VTIQSKDIQLARRLRGERN.............  136
145610501|Magnaporthe_oryzae/1-136    VTIQSKDIQLARRLRGERN.............  136
116204825|Chaetomium_globosum/1-136   VTIQSKDIQLARRLRGERN.............  136
85077297|Neurospora_crassa/1-136      VTIQSKDIQLARRLRGERN.............  136
60543104|Conocephalum_conicum/1-136   VTIQSKDIQLARRLRGERN.............  136
288903745|Calonectria_sp./1-118        VTIQSKDIQL......................  118
consensus                              VTIQSKDIQLARRLRGERN
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
288903743|Calonectria_sp./1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
288903741|Calonectria_sp./1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
288903739|Calonectria_sp./1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
288903737|Calonectria_sp./1-118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
288903735|Calonectria_sp./1-118                                                                                                                                                                                                                                
288903727|Calonectria_pauciramos/1-118                                                                                                                                
288903657|Cylindrocladium_sp./1-118                                                                                                
288903655|Cylindrocladium_sp./1-118                                
288903653|Cylindrocladium_sp./1-118                
256593672|Calonectria_brachiatic/1-118                
77921960|Cylindrocladium_sp./1-118                
77921952|Calonectria_hurae/1-118                
77921916|Cylindrocladium_gracile/1-118                
77921902|Calonectria_ecuadoriae/1-118                
77921900|Calonectria_curvata/1-118                
77921896|Calonectria_australiens/1-118                
77921888|Calonectria_angustata/1-118                
77921854|Calonectria_pteridis/1-118                
77921848|Calonectria_rumohrae/1-118                
77921818|Calonectria_reteaudii/1-118                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo
288903743|Calonectria_sp./1-118
288903741|Calonectria_sp./1-118
288903739|Calonectria_sp./1-118
288903737|Calonectria_sp./1-118
288903735|Calonectria_sp./1-118
288903727|Calonectria_pauciramos/1-118
288903657|Cylindrocladium_sp./1-118
288903655|Cylindrocladium_sp./1-118
288903653|Cylindrocladium_sp./1-118
256593672|Calonectria_brachiatic/1-118
77921960|Cylindrocladium_sp./1-118
77921952|Calonectria_hurae/1-118
77921916|Cylindrocladium_gracile/1-118
77921902|Calonectria_ecuadoriae/1-118
77921900|Calonectria_curvata/1-118
77921896|Calonectria_australiens/1-118
77921888|Calonectria_angustata/1-118
77921854|Calonectria_pteridis/1-118
77921848|Calonectria_rumohrae/1-118
77921818|Calonectria_reteaudii/1-118
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
77921816|Calonectria_multiseptat/1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
77921812|Calonectria_madagascari/1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
77921808|Cylindrocladium_macroco/1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
77921806|Calonectria_leguminum/1-118    .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
77921798|Calonectria_indusiata/1-118    .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
77921796|Calonectria_hawksworthi/1-118  .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
77921790|Calonectria_gracilis/1-118     .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
77921784|Calonectria_gracilipes/1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
77921762|Calonectria_colhounii/1-118    .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
77921744|Calonectria_clavata/1-118      .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
77921738|Calonectria_avesiculata/1-118  .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
309252555|Beauveria_bassiana/1-128     ..............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   117
77921882|Calonectria_acicola/1-112      ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
77921768|Calonectria_colhounii/1-112    ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
57165613|Calonectria_hongkongens/1-112  ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
57165607|Calonectria_curvata/1-112      ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
57165601|Calonectria_chinensis/1-112    ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
57165611|Calonectria_hongkongens/1-113  ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
77921920|Cylindrocladium_gracile/1-115  ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
77921858|Calonectria_pteridis/1-115     ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
consensus                                                  *  **GGKAPRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR

logo

77921816|Calonectria_multiseptat/1-118   VTIQSKDIQL.......................   118
77921812|Calonectria_madagascari/1-118   VTIQSKDIQL.......................   118
77921808|Cylindrocladium_macroco/1-118   VTIQSKDIQL.......................   118
77921806|Calonectria_leguminum/1-118    VTIQSKDIQL.......................   118
77921798|Calonectria_indusiata/1-118    VTIQSKDIQL.......................   118
77921796|Calonectria_hawksworthi/1-118  VTIQSKDIQL.......................   118
77921790|Calonectria_gracilis/1-118     VTIQSKDIQL.......................   118
77921784|Calonectria_gracilipes/1-118   VTIQSKDIQL.......................   118
77921762|Calonectria_colhounii/1-118    VTIQSKDIQL.......................   118
77921744|Calonectria_clavata/1-118      VTIQSKDIQL.......................   118
77921738|Calonectria_avesiculata/1-118  VTIQSKDIQL.......................   118
309252555|Beauveria_bassiana/1-128      VTIQPKDIQLA......................   128
77921882|Calonectria_acicola/1-112      VTIQSKD.........................   112
77921768|Calonectria_colhounii/1-112    VTIQSKD.........................   112
57165613|Calonectria_hongkongens/1-112  VTIQSKD.........................   112
57165607|Calonectria_curvata/1-112      VTIQSKD.........................   112
57165601|Calonectria_chinensis/1-112    VTIQSKD.........................   112
57165611|Calonectria_hongkongens/1-113  VTIQSKDI........................   113
77921920|Cylindrocladium_gracile/1-115  VTIQSKDIQL.......................   115
77921858|Calonectria_pteridis/1-115     VTIQSKDIQL.......................   115
consensus                               VTIQSKD***
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
77921828|Calonectria_reteaudii/1-115      ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     105
77921760|Calonectria_colhounii/1-115       ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     105
77921948|Cylindrocladium_gracile/1-116     .........................TGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     106
77921868|Calonectria_pteridis/1-116        .........................TGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     106
57165667|Calonectria_pseudonavic/1-116     .........................TGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     106
149250670|Fusarium_subglutinans/1-119      ........................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     107
77921886|Calonectria_acicola/1-120         .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
77921788|Calonectria_gracilipes/1-116      .........................TGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     106
283765653|Calonectria_ilicicola/1-116      ........................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     107
60543106|Conocephalum_conicum/1-136        ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKG     117
296933142|Cylindrocladiella_sp./1-111      ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     105
283765639|Calonectria_ilicicola/1-111      ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     105
99866617|Calonectria_morganii/1-111        ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     105
300809022|Calonectria_humicola/1-118       .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
300809010|Calonectria_pseudoscop/1-118     .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
300808996|Calonectria_sulawesien/1-118     .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
300808988|Calonectria_eucalypti/1-118      .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
300808980|Calonectria_spathulata/1-118     .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
300808954|Calonectria_kyotensis/1-118      .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
291480739|Cylindrocladium_spathu/1-118     .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     108
consensus                                                          **GGKAPRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR

logo

77921828|Calonectria_reteaudii/1-115      VTIQSKDIQL.......................     115
77921760|Calonectria_colhounii/1-115       VTIQSKDIQL.......................     115
77921948|Cylindrocladium_gracile/1-116     VTIQSKDIQL.......................     116
77921868|Calonectria_pteridis/1-116        VTIQSKDIQL.......................     116
57165667|Calonectria_pseudonavic/1-116     VTIQSKDIQL.......................     116
149250670|Fusarium_subglutinans/1-119      VTIQSKDIQLAR.....................     119
77921886|Calonectria_acicola/1-120         VTIQSKDIQLAR.....................     120
77921788|Calonectria_gracilipes/1-116      VTIQSNDIQL.......................     116
283765653|Calonectria_ilicicola/1-116      VTIQSKDIQ........................     116
60543106|Conocephalum_conicum/1-136        VTIQPKDIQLARRLRGERN..............     136
296933142|Cylindrocladiella_sp./1-111      VTIQSK...........................     111
283765639|Calonectria_ilicicola/1-111      VTIQSK...........................     111
99866617|Calonectria_morganii/1-111        VTIQSK...........................     111
300809022|Calonectria_humicola/1-118       VTIQSKAIQL.......................     118
300809010|Calonectria_pseudoscop/1-118     VTIQSKAIQL.......................     118
300808996|Calonectria_sulawesien/1-118     VTIQSKAIQL.......................     118
300808988|Calonectria_eucalypti/1-118      VTIQSKAIQL.......................     118
300808980|Calonectria_spathulata/1-118     VTIQSKAIQL.......................     118
300808954|Calonectria_kyotensis/1-118      VTIQSKAIQL.......................     118
291480739|Cylindrocladium_spathu/1-118     VTIQSKAIQL.......................     118
consensus                                  VTIQSK*IQL

X   non conserved
X   similar
X   ≥ 50% conserved
X   ≥ 80% conserved
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
256593033|Calonectria_ovata/1-118                  .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
300808944|Calonectria_cerciana/1-120                  .......................FR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   109
57165669|Calonectria_sumatrensis/1-107               ................................RKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   100
57165619|Calonectria_indonesiae/1-107                ................................RKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   100
57165597|Calonectria_chinensis/1-107                 ................................RKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   100
57165593|Calonectria_asiatica/1-107                  ................................RKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   100
57165615|Calonectria_indonesiae/1-108                ...........................PRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   101
45356345|Ophiostoma_quercus/1-134                    ..................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
45356361|Ophiostoma_quercus/1-147                    ..................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
45356373|Ophiostoma_quercus/1-147                    ..................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
45356389|Ophiostoma_catonianum/1-145                 ..................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
60543040|Conocephalum_supradecom/1-136               ...............MARTKQTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   117
21304608|Chrysoporthe_cubensis/1-109                 ............................TGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   106
21326903|Cryphonectria_parasitic/1-109               ............................TGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   106
21326929|Diaporthe_ambigua/1-109                     ............................TGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   106
5918714|Fusarium_oxysporum/1-105                     ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
5918715|Fusarium_subglutinans/1-105                  ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
5918728|Gibberella_circinata/1-105                   ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
5918736|Fusarium_nygamai/1-105                       ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
5918738|Gibberella_moniliformis/1-105                ............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
consensus                                            ******PRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR

logo

256593033|Calonectria_ovata/1-118                  VTIQSKAIQL.......................   118
300808944|Calonectria_cerciana/1-120                VTIQSKAIQLN......................   120
57165669|Calonectria_sumatrensis/1-107              VTIQSKD..........................   107
57165619|Calonectria_indonesiae/1-107               VTIQSKD..........................   107
57165597|Calonectria_chinensis/1-107                VTIQSKD..........................   107
57165593|Calonectria_asiatica/1-107                 VTIQSKD..........................   107
57165615|Calonectria_indonesiae/1-108               VTIQSKD..........................   108
45356345|Ophiostoma_quercus/1-134                   VTIQSVSFAVSHTLLHLNNY.............   134
45356361|Ophiostoma_quercus/1-147                   VTIQSVSFAVSHTLLHTFEQLLTTSQKDIQLAR   147
45356373|Ophiostoma_quercus/1-147                   VTIQSVSFAVSHSLAHALETTTNNLTEGHPARP   147
45356389|Ophiostoma_catonianum/1-145                VTIQSVSFAALQPNICSTSTNNLTEGHPARP..   145
60543040|Conocephalum_supradecom/1-136              VTIRSKDIQLARRLRGERN..............   136
21304608|Chrysoporthe_cubensis/1-109                VTI..............................   109
21326903|Cryphonectria_parasitic/1-109              VTI..............................   109
21326929|Diaporthe_ambigua/1-109                    VTI..............................   109
5918714|Fusarium_oxysporum/1-105                    ................................   105
5918715|Fusarium_subglutinans/1-105                 ................................   105
5918728|Gibberella_circinata/1-105                  ................................   105
5918736|Fusarium_nygamai/1-105                      ................................   105
5918738|Gibberella_moniliformis/1-105               ................................   105
consensus                                           *****
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
5918754|Fusarium_proliferatum/1-105      ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
41056336|Nalanthamala_diospyri/1-109     ...........................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   107
256595535|Fusarium_udum/1-103            ..............................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHA..   103
294714590|Fusarium_sp./1-102             ................................PRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   101
294714628|Fusarium_sp./1-102             ................................PRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   101
284807670|Glomerella_lindemuthia/1-105   ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807672|Colletotrichum_tofield/1-105   ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807678|Colletotrichum_liriope/1-105   ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807682|Colletotrichum_verrucu/1-105   ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807684|Colletotrichum_spaethi/1-105   ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807692|Colletotrichum_lilii/1-105     ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807694|Colletotrichum_trichel/1-105   ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807706|Colletotrichum_rusci/1-105     ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807708|Colletotrichum_dematiu/1-105   ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807724|Colletotrichum_sp./1-105       ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807726|Colletotrichum_sp./1-105       ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807728|Colletotrichum_lineola/1-105   ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807758|Colletotrichum_fructi/1-105    ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807760|Colletotrichum_anthris/1-105   ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807764|Colletotrichum_spinaci/1-105   ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
consensus                                                               APRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
5918754|Fusarium_proliferatum/1-105      ..............................   105
41056336|Nalanthamala_diospyri/1-109     VT............................   109
256595535|Fusarium_udum/1-103            ..............................   103
294714590|Fusarium_sp./1-102             V.............................   102
294714628|Fusarium_sp./1-102             V.............................   102
284807670|Glomerella_lindemuthia/1-105   VTI...........................   105
284807672|Colletotrichum_tofield/1-105   VTI...........................   105
284807678|Colletotrichum_liriope/1-105   VTI...........................   105
284807682|Colletotrichum_verrucu/1-105   VTI...........................   105
284807684|Colletotrichum_spaethi/1-105   VTI...........................   105
284807692|Colletotrichum_lilii/1-105     VTI...........................   105
284807694|Colletotrichum_trichel/1-105   VTI...........................   105
284807706|Colletotrichum_rusci/1-105     VTI...........................   105
284807708|Colletotrichum_dematiu/1-105   VTI...........................   105
284807724|Colletotrichum_sp./1-105       VTI...........................   105
284807726|Colletotrichum_sp./1-105       VTI...........................   105
284807728|Colletotrichum_lineola/1-105   VTI...........................   105
284807758|Colletotrichum_fructi/1-105    VTI...........................   105
284807760|Colletotrichum_anthris/1-105   VTI...........................   105
284807764|Colletotrichum_spinaci/1-105   VTI...........................   105
consensus                                VT*
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
284807778|Colletotrichum_circina/1-105   ..............................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807794|Colletotrichum_truncat/1-105   ..............................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807856|Colletotrichum_curcuma/1-105   ..............................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807858|Colletotrichum_chlorop/1-105   ..............................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807862|Colletotrichum_phaseol/1-105   ..............................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
284807790|Colletotrichum_circina/1-104   ..............................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   102
12745583|Gibberella_zeae/1-112           ......................RR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   109
45356383|Ophiostoma_quercus/1-136        ..................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   114
77921956|Calonectria_hurae/1-111          ......................R...STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
283765629|Calonectria_colhounii/1-104    ...................................RKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   100
41056326|Harpophora_maydis/1-112          ........................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   107
41056338|Acremonium_strictum/1-112        ........................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   107
41056342|Gibberella_moniliformis/1-112    ........................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   107
41056346|Gaeumannomyces_cylindro/1-112    ........................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   107
41056358|Gaeumannomyces_graminis/1-112    ........................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   107
41056362|Gaeumannomyces_graminis/1-112    ........................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   107
41056368|Gaeumannomyces_graminis/1-112    ........................STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   107
37812389|Pilidiella_diplodiella/1-110     ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
37812407|Pilidiella_diplodiopsis/1-110    ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
37812415|Pilidiella_sp./1-110             ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   105
consensus                                 ******APRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR

logo

284807778|Colletotrichum_circina/1-105   VTI.............................   105
284807794|Colletotrichum_truncat/1-105   VTI.............................   105
284807856|Colletotrichum_curcuma/1-105   VTI.............................   105
284807858|Colletotrichum_chlorop/1-105   VTI.............................   105
284807862|Colletotrichum_phaseol/1-105   VTI.............................   105
284807790|Colletotrichum_circina/1-104   VTI.............................   104
12745583|Gibberella_zeae/1-112           VTI.............................   112
45356383|Ophiostoma_quercus/1-136        VTIQSVSFAVSHSLLHTHLNNY..........   136
77921956|Calonectria_hurae/1-111          VTI.............................   111
283765629|Calonectria_colhounii/1-104    VTIQ............................   104
41056326|Harpophora_maydis/1-112          VTIQS...........................   112
41056338|Acremonium_strictum/1-112        VTIQS...........................   112
41056342|Gibberella_moniliformis/1-112    VTIQS...........................   112
41056346|Gaeumannomyces_cylindro/1-112    VTIQS...........................   112
41056358|Gaeumannomyces_graminis/1-112    VTIQS...........................   112
41056362|Gaeumannomyces_graminis/1-112    VTIQS...........................   112
41056368|Gaeumannomyces_graminis/1-112    VTIQS...........................   112
37812389|Pilidiella_diplodiella/1-110     VTIQS...........................   110
37812407|Pilidiella_diplodiopsis/1-110    VTIQS...........................   110
37812415|Pilidiella_sp./1-110             VTIQS...........................   110
consensus                                 VTI**
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
37812417|Pilidiella_sp./1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
37812419|Schizoparme_straminea/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
77921840|Calonectria_reteaudii/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283765621|Calonectria_pauciramos/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283765625|Calonectria_spathiphyl/1-109                                                                                                                                                                                                                                                                                                                
296933130|Cylindrocladiella_lage/1-109                                                                                                                                                                                
296933146|Cylindrocladiella_sp./1-109                                                                                
283765637|Cylindrocladium_reteau/1-108                                                
296933132|Cylindrocladiella_parv/1-108                                
296933140|Cylindrocladiella_sp./1-108                                
283765631|Calonectria_colhounii/1-107                                
283765649|Calonectria_colhounii/1-106                                
294714584|Fusarium_pseudocircina/1-103                                
294714592|Fusarium_sp./1-103                                
294714614|Fusarium_sterilihyphos/1-103                                
296933144|Cylindrocladiella_lage/1-106                                
294714620|Fusarium_sp./1-103                                
294714578|Fusarium_sp./1-102                                
294714610|Fusarium_sp./1-102                                
29421760|Fusarium_subglutinans/1-100                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo
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37812417|Pilidiella_sp./1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
37812419|Schizoparme_straminea/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
77921840|Calonectria_reteaudii/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283765621|Calonectria_pauciramos/1-109                                                                                                                                                                                
283765625|Calonectria_spathiphyl/1-109                                                                                
296933130|Cylindrocladiella_lage/1-109                                
296933146|Cylindrocladiella_sp./1-109                                
283765637|Cylindrocladium_reteau/1-108                                
296933132|Cylindrocladiella_parv/1-108                                
296933140|Cylindrocladiella_sp./1-108                                
283765631|Calonectria_colhounii/1-107                                
283765649|Calonectria_colhounii/1-106                                
294714584|Fusarium_pseudocircina/1-103                                
294714592|Fusarium_sp./1-103                                
294714614|Fusarium_sterilihyphos/1-103                                
296933144|Cylindrocladiella_lage/1-106                                
294714620|Fusarium_sp./1-103                                
294714578|Fusarium_sp./1-102                                
294714610|Fusarium_sp./1-102                                
29421760|Fusarium_subglutinans/1-100                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
29421790|Gibberella_circinata/1-100      ..................................RKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     100
45356387|Ophiostoma_fagi/1-138            ..................TKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     114
86450153|Gibberella_circinata/1-102      ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     102
29421746|Fusarium_subglutinans/1-101    ..................................PRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     101
294714588|Fusarium_proliferatum/1-104   ..................................PRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     101
294714594|Fusarium_sp./1-104             ..................................PRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     101
294714596|Fusarium_sp./1-103             ...............................RKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     100
57165609|Calonectria_kyotensis/1-111    ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     104
283765623|Cylindrocladium_reteau/1-110  ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     104
296933138|Cylindrocladiella_sp./1-110   ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     104
309706350|Calonectria_sp./1-110          ............................GKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     104
283765619|Calonectria_pauciramos/1-109  ............................KAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     103
82780162|Verticillium_dahliae/1-112     ..................................RKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     100
283765635|Calonectria_colhounii/1-108   ...........................GGKAPRKQL...A.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     102
269978665|Fusarium_poae/1-131           ...................QTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     112
269978667|Gibberella_pulicaris/1-131    ...................QTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     112
269978669|Fusarium_sp./1-131            ...................QTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     112
269978671|Fusarium_sporotrichioi/1-131  ...................QTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     112
269978673|Fusarium_torulosum/1-131      ...................QTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     112
269978675|Fusarium_venenatum/1-131      ...................QTARK..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     112
consensus                                                          ****PRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR

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29421790|Gibberella_circinata/1-100      ..................................     100
45356387|Ophiostoma_fagi/1-138            VTIQSVSFAVSHSLAHALEQLLTT.........     138
86450153|Gibberella_circinata/1-102      ..................................     102
29421746|Fusarium_subglutinans/1-101     ..................................     101
294714588|Fusarium_proliferatum/1-104    VTI...............................     104
294714594|Fusarium_sp./1-104             VTI...............................     104
294714596|Fusarium_sp./1-103             VTI...............................     103
57165609|Calonectria_kyotensis/1-111     VTIQSKD...........................     111
283765623|Cylindrocladium_reteau/1-110   VTIQSK............................     110
296933138|Cylindrocladiella_sp./1-110    VTIQSK............................     110
309706350|Calonectria_sp./1-110          VTIQSK............................     110
283765619|Calonectria_pauciramos/1-109   VTIQSK............................     109
82780162|Verticillium_dahliae/1-112      VTIQSKDIQLAR......................     112
283765635|Calonectria_colhounii/1-108    VTIQSK............................     108
269978665|Fusarium_poae/1-131            VTIQSKDIQLARRLRGERN...............     131
269978667|Gibberella_pulicaris/1-131     VTIQSKDIQLARRLRGERN...............     131
269978669|Fusarium_sp./1-131             VTIQSKDIQLARRLRGERN...............     131
269978671|Fusarium_sporotrichioi/1-131   VTIQSKDIQLARRLRGERN...............     131
269978673|Fusarium_torulosum/1-131       VTIQSKDIQLARRLRGERN...............     131
269978675|Fusarium_venenatum/1-131       VTIQSKDIQLARRLRGERN...............     131
consensus                                VTI***
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
291480751|Calonectria_spathiphyl/1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
296940139|Calonectria_brasiliens/1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
296940147|Calonectria_scoparia/1-118     .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
300507042|Cylindrocladium_clavat/1-118  .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
91983810|Stachybotrys_elegans/1-130     ...............ALTKQTARR..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   116
300808958|Calonectria_sp./1-118          .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
300808964|Calonectria_ovata/1-118        .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
300808970|Calonectria_ilicicola/1-118    .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
300808972|Calonectria_penicilloi/1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
300808974|Calonectria_pseudonavi/1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
300808984|Calonectria_variabilis/1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
300808992|Calonectria_eucalypti/1-118    .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
300809004|Calonectria_pini/1-118         .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
300809008|Calonectria_pseudoscop/1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
300809016|Calonectria_densa/1-118        .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
300809028|Calonectria_orientalis/1-118   .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
291480741|Cylindrocladium_insula/1-117  .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
77921756|Calonectria_clavata/1-116       .......................R..STGGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   108
60543042|Conocephalum_supradecom/1-136   ...............MARTKQTARK..STGGKVPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   117
60543048|Conocephalum_supradecom/1-136   ...............MARTKQTARK..STGGKAPGKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR   117
consensus                                                          R  STGGKAPRKQLASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR

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291480751|Calonectria_spathiphyl/1-118   VTIQSKDIQL.......................   118
296940139|Calonectria_brasiliens/1-118   VTIQSKDIQL.......................   118
296940147|Calonectria_scoparia/1-118     VTIQSKDIQL.......................   118
300507042|Cylindrocladium_clavat/1-118  VTIQSKDIQL.......................   118
91983810|Stachybotrys_elegans/1-130     VTIQSKDIQLARKG...................   130
300808958|Calonectria_sp./1-118          VTIQSKDIQL.......................   118
300808964|Calonectria_ovata/1-118        VTIQSKDIQL.......................   118
300808970|Calonectria_ilicicola/1-118    VTIQSKDIQL.......................   118
300808972|Calonectria_penicilloi/1-118   VTIQSKDIQL.......................   118
300808974|Calonectria_pseudonavi/1-118   VTIQSKDIQL.......................   118
300808984|Calonectria_variabilis/1-118   VTIQSKDIQL.......................   118
300808992|Calonectria_eucalypti/1-118    VTIQSKDIQL.......................   118
300809004|Calonectria_pini/1-118         VTIQSKDIQL.......................   118
300809008|Calonectria_pseudoscop/1-118   VTIQSKDIQL.......................   118
300809016|Calonectria_densa/1-118        VTIQSKDIQL.......................   118
300809028|Calonectria_orientalis/1-118   VTIQSKDIQL.......................   118
291480741|Cylindrocladium_insula/1-117  VTIQSKDIQ........................   117
77921756|Calonectria_clavata/1-116       VTIQSKDI.........................   116
60543042|Conocephalum_supradecom/1-136   VTIQSKDIQLARRLRGERN..............   136
60543048|Conocephalum_supradecom/1-136   VTIQSKDIQLARRLRGERN..............   136
consensus                                VTIQSKDIQL
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
45356381|Ophiostoma_quercus/1-134          .................TKQTARR..STGGKAPPPQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKX     114
5918752|Fusarium_proliferatum/1-105          ............................GGKAPRKQFASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     105
60543086|Marchantia_polymorpha/1-136        ...............MARTKQTARK..STGGQGPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     117
15425972|Ophiostoma_novo-ulmi/1-108          ....................................QQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR      99
284807690|Colletotrichum_lilii/1-105         ..............................APCKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     102
284807814|Colletotrichum_truncat/1-105       ..............................APCKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR     102
61102908|Nectricladiella_camelli/1-91        ....................................ASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCA.....      91
57165623|Calonectria_malesiana/1-105         ....................................QLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR      98
57165677|Cylindrocladiella_lagen/1-100       ....................................ASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR      96
57165679|Cylindrocladiella_peruv/1-95        ....................................ASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAK.      95
118772134|Gibberella_zeae/1-94               ....................................ASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHA..      94
61102878|Cylindrocladiella_camel/1-92        ....................................ASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAI....      92
61102882|Cylindrocladiella_elega/1-92        ....................................ASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAI....      92
61102886|Nectricladiella_infesta/1-92        ....................................ASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAI....      92
61102890|Cylindrocladiella_lagen/1-92        ....................................ASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAI....      92
61102904|Nectricladiella_camelli/1-92        ....................................ASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAI....      92
61102910|Cylindrocladiella_novae/1-92        ....................................ASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAI....      92
61102912|Cylindrocladiella_parva/1-92        ....................................ASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAI....      92
61102920|Cylindrocladiella_peruv/1-92        ....................................ASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAI....      92
61102948|Cylindrocladiella_vitic/1-92        ....................................ASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAI....      92
consensus                                                                          ASKA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAI**

logo

45356381|Ophiostoma_quercus/1-134          VXIQSVSFAVSHTLLHLNNY.............     134
5918752|Fusarium_proliferatum/1-105          ................................     105
60543086|Marchantia_polymorpha/1-136        VTIQSKDIQLARRLRGERN..............     136
15425972|Ophiostoma_novo-ulmi/1-108          VTIQSVSLL........................     108
284807690|Colletotrichum_lilii/1-105         VTI..............................     105
284807814|Colletotrichum_truncat/1-105       VTI..............................     105
61102908|Nectricladiella_camelli/1-91        ................................      91
57165623|Calonectria_malesiana/1-105         VTIQSKD..........................     105
57165677|Cylindrocladiella_lagen/1-100       VTIQ............................     100
57165679|Cylindrocladiella_peruv/1-95        ................................      95
118772134|Gibberella_zeae/1-94               ................................      94
61102878|Cylindrocladiella_camel/1-92        ................................      92
61102882|Cylindrocladiella_elega/1-92        ................................      92
61102886|Nectricladiella_infesta/1-92        ................................      92
61102890|Cylindrocladiella_lagen/1-92        ................................      92
61102904|Nectricladiella_camelli/1-92        ................................      92
61102910|Cylindrocladiella_novae/1-92        ................................      92
61102912|Cylindrocladiella_parva/1-92        ................................      92
61102920|Cylindrocladiella_peruv/1-92        ................................      92
61102948|Cylindrocladiella_vitic/1-92        ................................      92
consensus
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
61102952|Cylindrocladiella_sp./1-92      ......................................ASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAI....   92
61102954|Cylindrocladiella_sp./1-92      ......................................ASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAI....   92
57165587|Calonectria_asiatica/1-108      ......................................LASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  97
57165621|Calonectria_malesiana/1-108     ......................................LASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  97
57165591|Calonectria_asiatica/1-105      ......................................LASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  97
57165599|Calonectria_chinensis/1-101     ......................................KA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  94
57165617|Calonectria_indonesiae/1-101    ......................................KA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  94
77921878|Calonectria_pteridis/1-115      ........................CGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR 105
77921914|Calonectria_gordoniae/1-118     ......................R..STGAKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR 108
296940153|Calonectria_morganii/1-119     ......................R..STCGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR 108
256593031|Calonectria_ovata/1-118        ......................R..SNCGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR 108
60543046|Conocephalum_supradecom/1-136  ..............MARTKQTARK..STGGNAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR 117
12957226|Fusarium_subglutinans/1-105   ........................GGKAPRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIXAKR 105
284807844|Colletotrichum_truncat/1-97   ................................APRKQLASKA.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCA.....   97
60543058|Conocephalum_conicum/1-136     ..............MARTKQTARK..STGGKVPRKQLASKA.VRKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR 117
15420394|Fusarium_oxysporum/1-96        ......................................LTSPT.ARKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAK.   96
83595195|Fusarium_sp./1-91               ............................................RKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  91
256595548|Fusarium_udum/1-91             ............................................RKSA..P.S.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAKR  91
296206517|Callithrix_jacchus/1-136       ..............MARTKQTARK..STGGKAPRKQLATKA.ARESA..P.S.SGGVKKPH.RYRPGTVALHEIRHYPKSTELLIHKLPFQRLVREIARDFKTDLRFQSAAIGALQEASPAYLVGLFEDTNLCAIHAKC 117
148669536|Mus_musculus/1-136            ..............MARTKQTACK..STGGKAPRKQLATKA.ARKSA..P.D.TGGVKKPH.LYRPGTVALHEIRRYQKSTEFLIRKLPFQRLVRDIAQDFKTDLRFQSAAIGALQEASPAYQVGLFEDTNLCAIHAKH 117
consensus                                                          *******KA ARKSA  P S TGGVKKPH RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKSDLRFQSSAIGALQESVESYLVSLFEDTNLCAIHAK*

logo
61102952|Cylindrocladiella_sp./1-92      ..................................   92
61102954|Cylindrocladiella_sp./1-92      ..................................   92
57165587|Calonectria_asiatica/1-108      VTIQSKDIQLA......................  108
57165621|Calonectria_malesiana/1-108     VTIQSKDIQLA......................  108
57165591|Calonectria_asiatica/1-105      VTIQSKDI........................  105
57165599|Calonectria_chinensis/1-101     VTIQSKD.........................  101
57165617|Calonectria_indonesiae/1-101    VTIQSKD.........................  101
77921878|Calonectria_pteridis/1-115      VTIQSKDIQL......................  115
77921914|Calonectria_gordoniae/1-118     VTIQSKDIQL......................  118
296940153|Calonectria_morganii/1-119     VTIQSKAIQQS.....................  119
256593031|Calonectria_ovata/1-118        VTIQSKAIQL......................  118
60543046|Conocephalum_supradecom/1-136  VTIQSKDIQLARRLRGERN.............  136
12957226|Fusarium_subglutinans/1-105     ..................................  105
284807844|Colletotrichum_truncat/1-97   ..................................   97
60543058|Conocephalum_conicum/1-136     VTIQSKDIQLARRLRGERN.............  136
15420394|Fusarium_oxysporum/1-96        ..................................   96
83595195|Fusarium_sp./1-91               ..................................   91
256595548|Fusarium_udum/1-91             ..................................   91
296206517|Callithrix_jacchus/1-136       VTIMPKDIQLARRIRGEGA.............  136
148669536|Mus_musculus/1-136             VTIMPKDIQLASHIHGERA.............  136
consensus                                *********
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 3 2 1
                                                      [ ]
308464167|Caenorhabditis_remanei/1-135   ...............MARTKQTARK..STGAKAPRKQLGTKA.ARK.G..P.I.VGAVKKPH.RFRPGTVALREIRRYQKSTELLRKLPFQRLVREISQDFKTDLRFQSAAIGALQEASESYLVGLFEDTNLCAIHAKR   116
309267103|Mus_musculus/1-136            ...............MARTKQTARK..STDDKAPRKQLATKA.ARKSA..P.S.PGGVKKPH.RYRPGTVALREIRCYQKSTELLISKLPFQRLVREIAQDFKTDLCFQSAAIGALQEASETYLVGLFEDTNRCAIHAKR   117
119610321|Homo_sapiens/1-142             ...............MARTRWTARK..STGGIAPRKQLATKA.TCKSA..P.S.TGGVKKPH.RYRPGTVALREIRHYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQRAAIGTLQEASEAYLVGLFEDTNLCAIHATR   117
114688593|Pan_troglodytes/1-142          ...............MARTRWTARK..STGGIAPRKQLATKA.TCKSA..P.S.TGGVKKPH.RYRPGTVALREIRHYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGTLQEASEAYLVGLFEDTNLCAIHATR   117
76362289|Conocephalum_conicum/1-104      ..................................RKQLATKA.ARKRA..VPA.TSGVNKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDYKTDLRFQSSAVLALQEAAEAFLFSLFEDTNLAAIHAKR   101
76362285|Conocephalum_conicum/1-104      ..................................RKQLATKA.ARKTA..VPA.TSGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDYKTDLRFQSSAVLALQEAAEAYLVSLFEDTNLAAIHAKR   101
109070850|Macaca_mulatta/1-136           ...............MAPTKQTARK..STGGKAPRKQPATKA.TRKSA..P.S.TGGVKKPH.RYRPGTVGLREIRRYQKSTELLIRKLPFQRLVREIVQDFKTDLRFQSTAIGALQEASEAYLVGLFEDTNLCAIHAKH   117
309265661|Mus_musculus/1-148             ...MGVERERASVAHTTARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPY.RYRPGTVAHSEVRCYPKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   129
149255259|Mus_musculus/1-142             ...MGV......AHTTARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPY.RYRPGTVAHSEVRCYPKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   123
60543118|Conocephalum_conicum/1-137      ...............MARTKQTARK..STGGKAPRKQLASKA.ARKTA..PTT.TGGVKKPH.RFSPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVSLFEDTNLAAIHAKR   118
302673495|Schizophyllum_commune/1-137   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKTA..AAA.TGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVSLFEDTNLAAIHAKR   118
169845852|Coprinopsis_cinerea/1-137      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKTA..QTA.TGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVSLFEDTNLAAIHAKR   118
170101719|Laccaria_bicolor/1-137         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKTA..QTA.TGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVSLFEDTNLAAIHAKR   118
170114639|Laccaria_bicolor/1-137         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKTA..QTA.TGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVSLFEDTNLAAIHAKR   118
302694929|Schizophyllum_commune/1-137   ...............MARTKQTARK..STGGKAPRKQLAAKS.ARKTA..ANA.TGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVSLFEDTNLAAIHAKR   118
302679162|Schizophyllum_commune/1-136   ...............MARTKQTARK..STGGKAPRKQLAAKS.ARKTA..ANA.TGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVSLFEDTNLAAIHAKR   118
169843391|Coprinopsis_cinerea/1-138      ...............MARTKQTARK..STGGKAPRKQLASKSAARKTA..TTA.AGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVSLFEDTNLAAIHAKR   119
302686044|Schizophyllum_commune/1-137   ...............MARTKQTARK..STGGKAPRKQLAAKSQARKT...AAA.AGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVSLFEDTNLAAIHAKR   118
169849971|Coprinopsis_cinerea/1-138      ...............MARTKQTARK..STGGKAPRKQLAAKSSARKTA..AAA.AGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVSLFEDTNLAAIHAKR   119
170084837|Laccaria_bicolor/1-138         ...............MARTKQTARK..STGGKAPRKQLASKSAARKTA..SNA.TGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVSLFEDTNLAAIHAKR   119
consensus                                MARTKQTARK  STGGKAPRKQLA*K* ARK*A    * *GGVKKPH R*RPGTVALREIR*YQKSTELLIRKLPFQRLVREIAQDFKTDLRFQS*A**ALQEA*EAYLV*LFEDTNL*AIHAKR

logo                                                  4 3 2 1
                                                      [ ]
308464167|Caenorhabditis_remanei/1-135   VTIMPKDMQLARRIRGERT..............   135
309267103|Mus_musculus/1-136             VTIMPKDTQLAGRICGECA..............   136
119610321|Homo_sapiens/1-142             VTIMPKDIQLARHIRGERVSEYTMM........   142
114688593|Pan_troglodytes/1-142          VTIMPKDIQLARHIRGERVSEYTMM........   142
76362289|Conocephalum_conicum/1-104      VTI..............................   104
76362285|Conocephalum_conicum/1-104      VTI..............................   104
109070850|Macaca_mulatta/1-136           VTIMPKDIQLARCIHGERV..............   136
309265661|Mus_musculus/1-148             VTIMPKDIQLARHIHGELA..............   148
149255259|Mus_musculus/1-142             VTIMPKDIQLARHIHGELA..............   142
60543118|Conocephalum_conicum/1-137      VTIQPKDLALARRLRGERN..............   137
302673495|Schizophyllum_commune/1-137    VTIQPKDLALARRLRGERT..............   137
169845852|Coprinopsis_cinerea/1-137      VTIQPKDLALARRLRGERS..............   137
170101719|Laccaria_bicolor/1-137         VTIQPKDLALARRLRGERS..............   137
170114639|Laccaria_bicolor/1-137         VTIQPKDLALARRLRGERT..............   137
302694929|Schizophyllum_commune/1-137    VTIQPKDLALARRLRGERS..............   137
302679162|Schizophyllum_commune/1-136    VTIQPKDLALARRLRGER...............   136
169843391|Coprinopsis_cinerea/1-138      VTIQPKDLALARRLRGERS..............   138
302686044|Schizophyllum_commune/1-137    VTIQPKDLALARRLRGERS..............   137
169849971|Coprinopsis_cinerea/1-138      VTIQPKDLALARRLRGERS..............   138
170084837|Laccaria_bicolor/1-138         VTIQPKDLALARRLRGERS..............   138
consensus                                VTI*PKD**LAR***GE**
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo
170105148|Laccaria_bicolor/1-138      ..............MARTKQTARK..STGGKAPRKQLASKSSAAFKT..AAA.AGGVKKPH.RPRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVSLFEDTNLAAIHAKR   119
82951200|Mus_musculus/1-136          ..............MARTKQTARK..STGDKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.CYRPGTVALREIRSYQKSSELLIRKLPFQRLVLEIAQDFKTDLGFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
297691522|Pongo_abelii/1-136         ..............MARTKQTARK..STGGKAPRKQLATKA.ARKST..P.S.TGGVKKPH.RHGPGTVALREIRRYQKSTALLLRKLPFQRLVREIAQDFNTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
297714641|Pongo_abelii/1-120         ..............MARTKQTARK..STGGKAPRKQLATKA.ARKST..P.S.TGGVKKPH.RHGPGTVALREIRRYQKSTALLLRKLPFQRLVREIAQDFNTDLRFQSAAI..............DTNLCAIHAKR   101
297292147|Macaca_mulatta/1-136       ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIHRYQQSTELLLRKLPFQRLVREIAQDFKTDLRFQSAAIGVLQEANEVYLVGLFEDTHLCAIHTKR   117
30140272|Paranemertes_peregrina/1-101 ......................ARK..STGGKAPRKQXATKA.ACKSA..P.S.TGGVKKPH.RYRPGTVAXREIRRYQKXTELLIRKLPFQRLVREIAQDFKTDLRFQSXAIGALQEASEAYLVGLFEDT.........   101
73945477|Canis_lupus/1-136           ..............MARTKQTAHK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALHEIRHYQKSTELLIRKFPFQRLVREIAQDFKTDLRFQSAATGALQEASEAYLVGLFEDTNLCAIHVKR   117
17565064|Caenorhabditis_elegans/1-136 ..............MARTKQTARK..STGGKAPRKALATKA.ARKSA..I.V.TGSVKKVH.RPRPGTVALREIRRYQKSTELLLRKLPFQRLVREIAQDFKTDLRFQSAATGALQEASEAYLVGLFEDTNLCAIHAKR   117
109067696|Macaca_mulatta/1-136       ..............MARTKQNARK..STSGKAPRKQLATKA.TRKSA..P.S.TGGVKKSH.CYRSSTVALREIRRYQKSTELLIHKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
309304726|Puccinia_graminis/1-136    ..............MARTKQTARK..STGGKAPRKQLAAKS.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESAEAYLVGLFEDTNLAAIHAKR   117
309297846|Puccinia_graminis/1-136    ..............MARTKQTARK..STGGKAPRKQLAAKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESAEAYLVGLFEDTNLAAIHAKR   117
309303188|Puccinia_graminis/1-136    ..............MARTKQTARK..STGGKAPRKQLAAKA.ARKSA..P.P.AGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESAEAYLVGLFEDTNLAAIHAKR   117
60543074|Conocephalum_conicum/1-136 ..............MARTKQTARK..STGGKVPRKQLATKA.ARKSA..P.S.AGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESAEGYLVSFFEDHNLAAIHAKR   117
164656699|Malassezia_globosa/1-136   ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.AGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQESAEAYLVSLFEDTNLAAIHAKR   117
60543064|Conocephalum_conicum/1-136 ..............MARTKQTASK..STGGKVPRKQLATKA.ARKSA..P.S.AGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESAEAYLVSLFEDTNLAAIHAKR   117
60543076|Conocephalum_conicum/1-136 ..............MARTKQTARK..STGGKAPRKQFATKA.VRKSA..P.S.AGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESAEAYLVSLFEDTNLAAIHAKR   117
71015958|Ustilago_maydis/1-136       ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.AGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESAEAYLVSLFEDTNLAAIHAKR   117
60543056|Conocephalum_conicum/1-136 ..............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.AGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQESAEAYLVSLFEDTNLAAIHAKR   117
44890574|Homo_sapiens/1-135           ..............MARTKQTARK..STGGKAPRKQLATKA.ARKST..P.S.TGGV.KPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFNTDLRFQSAAVGALQEASEAYLVGLLEDTNLCAIHAKR   116
188528667|Homo_sapiens/1-135          ..............MARTKQTARK..STGGKAPRKQLATKA.ARKST..P.S.TGGV.KPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFNTDLRFQSAAVGALQEASEAYLVGLLEDTNLCAIHAKR   116
consensus                                                    MARTKQTARK  STGGKAPRKQLATKA ARKS*  P * *GGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQS*A**ALQE**EAYLV*LFEDTNL*AIHAKR

logo
170105148|Laccaria_bicolor/1-138      VTIQPKDLALARRLRGERS.............   138
82951200|Mus_musculus/1-136          VTIMPKDTQLAGYICRECA.............   136
297691522|Pongo_abelii/1-136         VTIMPKDIQLARRIRGERA.............   136
297714641|Pongo_abelii/1-120         VTIMPKDIQLARRIRGERA.............   120
297292147|Macaca_mulatta/1-136       VTIMPKDIQLARRIRGERV.............   136
30140272|Paranemertes_peregrina/1-101 ...............................   101
73945477|Canis_lupus/1-136           VTIMPKDIQLARHIRGERA.............   136
17565064|Caenorhabditis_elegans/1-136 VTIMPKDVQLARRIRGERS.............   136
109067696|Macaca_mulatta/1-136       VTIMPKDIQLARRIRGERA.............   136
309304726|Puccinia_graminis/1-136    VTIQPKDIQLARRLRGERS.............   136
309297846|Puccinia_graminis/1-136    VTIQPKDIQLARRLRGERS.............   136
309303188|Puccinia_graminis/1-136    VTIQPKDIQLARRLRGERS.............   136
60543074|Conocephalum_conicum/1-136  VTIQPKDIALARRLRGERN.............   136
164656699|Malassezia_globosa/1-136   VTIQPKDIALARRLRGERS.............   136
60543064|Conocephalum_conicum/1-136  VTIQPKDIALARRLRGERN.............   136
60543076|Conocephalum_conicum/1-136  VTIQPKDIALARRLRGERN.............   136
71015958|Ustilago_maydis/1-136       VTIQPKDIALARRLRGERT.............   136
60543056|Conocephalum_conicum/1-136  VTIQPKDIALARRLRGERN.............   136
44890574|Homo_sapiens/1-135          VTIMPKDIQLARRIRGERA.............   135
188528667|Homo_sapiens/1-135         VTIMPKDIQLARRIRGERA.............   135
consensus                            VTI*PKDI*LARR*RGER
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X non conserved
X similar
X ≥50% conserved
X ≥80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
309308536|Puccinia_graminis/1-136      ...............MARTKQTARK..STGGKAPRKQLAAKA.ARKSA..P.A.TGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQESAEAYLVSLFEDTNLAAIHAKR    117
71019665|Ustilago_maydis/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.AGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEAAEAYLVSLFEDTNLAAIHAKR    117
164663251|Malassezia_globosa/1-136     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.I.AGGVKKPH.RYKPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR    117
109093585|Macaca_mulatta/1-136          ...............MARTKQTACK..STSGKAPRKQPATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLAFQPLVREIAQDFKTDLRFQSAAIGALQEASEPYLVGLFEDTNLCAIHAKR    117
119903079|Bos_taurus/1-136              ...............MARTKQTARK..STGGKAPRKQAATKA.TRKSA..P.S.TGGVKKPH.RYRPGTVALHEIRCYQKSTELLIRKLPFQRLVREIAQDFKTDLCFQSAAIGALQEASEAYLVGLFENTNLCAIHAKR    117
296214243|Callithrix_jacchus/1-136      ...............MARTKQTARK..STGGKTPRKQLATKA.SRKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKPTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGPLQEASEAYLVGLFEDTNLCAIHAKR    117
48427860|Mortierella_alpina/1-136        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR    117
306480925|Apophysomyces_elegans/1-120  ........................R..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR    108
306480923|Apophysomyces_elegans/1-125  ................NKQTARR..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR    114
306480945|Apophysomyces_trapezif/1-127 ................NKQTARR..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR    114
306480937|Apophysomyces_variabil/1-125 ..................KQTARR..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR    113
306480947|Apophysomyces_trapezif/1-125 ...................QTARR..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR    112
306480933|Apophysomyces_variabil/1-124 ...................QTARR..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR    112
306480927|Apophysomyces_ossiform/1-123 ..................KQTARR..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR    113
306480951|Apophysomyces_trapezif/1-125 ..................KQTARR..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR    113
306480939|Apophysomyces_variabil/1-125 ..................KQTARR..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR    113
306480931|Apophysomyces_variabil/1-126 .................TKQTARR..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR    114
306480929|Apophysomyces_ossiform/1-126 .................ISQTARR..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR    114
306480935|Apophysomyces_variabil/1-123 ..................SQTARR..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR    113
306480949|Apophysomyces_trapezif/1-114 ...................QTARR..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR    112
consensus                                                 *QTAR*  STGGKAPRKQLATKA ARKSA  P S TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAIGALQEASEAYLVSLFEDTNLAAIHAKR

logo
309308536|Puccinia_graminis/1-136      VTIQPKDIQLARRLRGERS.............    136
71019665|Ustilago_maydis/1-136          VTIQPKDIALARRLRGERS.............    136
164663251|Malassezia_globosa/1-136      VTIQPKDIALARRLRGERS.............    136
109093585|Macaca_mulatta/1-136          VTIMPKDIQLACRIRGERA.............    136
119903079|Bos_taurus/1-136              VTIMPKDIQLARRIRGERA.............    136
296214243|Callithrix_jacchus/1-136      VTIIPKDIQLARRIRGEHA.............    136
48427860|Mortierella_alpina/1-136       VTIQPKDIHLARRLRGERT.............    136
306480925|Apophysomyces_elegans/1-120   VTIQPKDIQLRP....................    120
306480923|Apophysomyces_elegans/1-125   VTIQPKDIQLA......................    125
306480945|Apophysomyces_trapezif/1-127  VTIQPKDIQLGPH...................    127
306480937|Apophysomyces_variabil/1-125  VTIQPKDIQLGP....................    125
306480947|Apophysomyces_trapezif/1-125  VTIQPKDIQLGPH...................    125
306480933|Apophysomyces_variabil/1-124  VTIQPKDIQLGP....................    124
306480927|Apophysomyces_ossiform/1-123  VTIQPKDIQL.......................    123
306480951|Apophysomyces_trapezif/1-125  VTIQPKDIQLAR...................    125
306480939|Apophysomyces_variabil/1-125  VTIQPKDIQLAR...................    125
306480931|Apophysomyces_variabil/1-126  VTIQPKDIQLAR...................    126
306480929|Apophysomyces_ossiform/1-126  VTIQPKDIQLAR...................    126
306480935|Apophysomyces_variabil/1-123  VTIQPKDIQL.......................    123
306480949|Apophysomyces_trapezif/1-114  VT..............................    114
consensus                               VTIQPKDIQL**
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
184185553|Rhinolophus_ferrumequi/1-112   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSAPLLIRKLPFQRLVREIAQDFKTDLRFQNAAIGALQEASEAYLI......PTGVLSMPN   111
119890811|Bos_taurus/1-136               ...............MARTKQTARK..STSGKAPRKQLATKA.ARKSA..P.S.TGRVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALLEASEAYLVGLFEDTNLCAIGAKR   117
297473661|Bos_taurus/1-136               ...............MARTKQTARK..STSGKAPRKQLATKA.ARKSA..P.S.TGRVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQSLVREIAQDFKTDLRFQSAAIGALLEASEAYLVGLFEDTNLCAIGAKR   117
109093524|Macaca_mulatta/1-136             ...............MARTKQTACQ..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQPLVREIAQDFKTDPRFQSAAIGALQEASEPYLVGLFEDTNLCAIHAKC   117
57336934|Eumecynostomum_altitudi/1-117    ................RTKQTARK..STGGKAPRKQLATKA.ARKSA..P.Q.TGGVKKPH.RYRPGTVALREIRRYQKSTEMLIRKLPFQRLVREIAQDFKTDLRFQSTAIMALQEASESYLVNLFEDSNLCAIHAKR   115
21542072|Mastigamoeba_balamuthi/1-135    ...............MARTKQTARK..STGGKAPRKAVATKA..RKTA..P.P.VGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIAALQEAAEAYLVGLFEDTNLCAIHAKR   116
291402409|Oryctolagus_cuniculus/1-136    ...............MAHTKQTARK..STGGKALRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTGLLICKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASGAYLVGLFEDTNLCAIHAKR   117
23304734|Platichthys_flesus/1-96          ..............................................G.T...........RPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQGFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR    77
293347902|Rattus_norvegicus/1-141         ..........MAVGFSSRNAWLGRQ..TSGGKPPSKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREICCYQKSTELLIQKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   122
296196970|Callithrix_jacchus/1-136        ...............MARTKRTART..STGAKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTEPLIRKLPFRRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLGAIHAKR   117
296196972|Callithrix_jacchus/1-120        ...............MARTKRTART..STGAKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTEPLIRKLPFRRLVREIAQDFKTDLRFQSAAI..................DTNLGAIHAKR   101
296230527|Callithrix_jacchus/1-136        ...............MARTKQTARK..STSGKAPRKQLATKA.ARKST..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQHLLREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
150247096|Bos_taurus/1-136                ...............MARTKQTARK..STGGKAPRKQLVTKA.ARKSA..P.S.TGGMKKPH.RYRPGTVALREIRRHQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
299470903|Ectocarpus_siliculosus/1-136    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.I.AGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAIMALQEAAEAYLVGLFEDTNLCAIHAKR   117
19850230|Amaeana_trilobata/1-99           ...............................TGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRXXGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEACEAYLVGLFEDTNL.......   99
119894168|Bos_taurus/1-136                ...............MARTKQTARK..STGGKAPRKQLTTKA.ARKTA..P.S.IGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDYKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
297476065|Bos_taurus/1-136                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKTA..P.S.IGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDYKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
225719588|Caligus_clemensi/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRRLSFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTDLCAIHAKR   117
256387123|Stenostomum_bicaudatum/1-92     ...............................GGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRRLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGL.............   92
297304240|Macaca_mulatta/1-136            ...............MAPTKQTARK..STGGKAPRKQLATKA.ACKSA..P.S.TGGVKKPH.RYRPVTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKC   117
consensus                                    ***TK*TAR*  STGGKAPRKQLATKA ARKSA  P S TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAI*AK*

logo                                         VTIMPKDIQLARRIRGERA

184185553|Rhinolophus_ferrumequi/1-112   V.............................   112
119890811|Bos_taurus/1-136               VTIMPKDIQLACRKCGERA.............   136
297473661|Bos_taurus/1-136               VTIMPKDIQLACRKCGERA.............   136
109093524|Macaca_mulatta/1-136           VTIMPKDIQLACRICGECA.............   136
57336934|Eumecynostomum_altitudi/1-117   VT..............................   117
21542072|Mastigamoeba_balamuthi/1-135    VTIMPKDIQLARRIRGERA.............   135
291402409|Oryctolagus_cuniculus/1-136    VTIMPKDIQLARRIRGERA.............   136
23304734|Platichthys_flesus/1-96         VTIMPKDIQLARRIRGERA.............    96
293347902|Rattus_norvegicus/1-141        VTIMPKDIQLARRIRGERA.............   141
296196970|Callithrix_jacchus/1-136       VTIMPKDIQLARRIHGERA.............   136
296196972|Callithrix_jacchus/1-120       VTIMPKDIQLARRIHGERA.............   120
296230527|Callithrix_jacchus/1-136       VTIMPKDIQLAHRIRGECA.............   136
150247096|Bos_taurus/1-136               VTVMPRDIQLARRIRGERA.............   136
299470903|Ectocarpus_siliculosus/1-136   VTIMPKDIQLARRIRGERA.............   136
19850230|Amaeana_trilobata/1-99          ...............................    99
119894168|Bos_taurus/1-136               VTIMPKDIQLARRIRGERA.............   136
297476065|Bos_taurus/1-136               VTIMPKDIQLARRIRGERA.............   136
225719588|Caligus_clemensi/1-136         VTIMPKDIQLARRIRGERA.............   136
256387123|Stenostomum_bicaudatum/1-92    ...............................    92
297304240|Macaca_mulatta/1-136           VTIMPKDIQLARRIRGERA.............   136
consensus                                VT*MP*DIQLA*R**GE*A
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297304242|Macaca_mulatta/1-120          ...............MAPTKQTARK..STGGKAPRKQLATKA.ACKSA..P.S.TGGVKKPH.RYRPVTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAI................DTNLCAIHAKC   101
55623240|Pan_troglodytes/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLVRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLSAIHAKR   117
37654354|Ciona_intestinalis/1-107          ...............................APRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLVRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   102
37654358|Drosophila_melanogaster/1-107   ...............................APRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLVRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   102
37654362|Sepia_officinalis/1-107         ...............................APRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLVRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   102
37654352|Homo_sapiens/1-107              ...............................APRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLVRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVNLFEDTNLCAIHAKR   102
148668461|Mus_musculus/1-141             ........GGVHTMARTKQTARK..STGGKAPRKQLATKA.ARKSV..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQGLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   122
94395561|Mus_musculus/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSV..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQGLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
296196448|Callithrix_jacchus/1-136       ...............MARTKQTARK..STGGKAHRKQLATKA.ARKSA..P.S.TGGVKKPH.HYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTTLCAIHAKR   117
296196450|Callithrix_jacchus/1-120       ...............MARTKQTARK..STGGKAHRKQLATKA.ARKSA..P.S.TGGVKKPH.HYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAI................DTTLCAIHAKR   101
296197909|Callithrix_jacchus/1-136       ...............MAPTKQTALK..SAGGKAPRKQLAAKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTGLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
37654356|Oryctolagus_cuniculus/1-107     ...............................APRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPSTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLLFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   102
109132178|Macaca_mulatta/1-136           ...............MALTKQTARK..STGGKAPRKQLATKA.ALKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQGFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
109070228|Macaca_mulatta/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALPEIRRYQKSTELLPRKLPFQRLVREIAQDFKTDLRFQSAAIGPLQEASEAYLVGLFEDTNLCAIHAKR   117
297290402|Macaca_mulatta/1-120           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALPEIRRYQKSTELLPRKLPFQRLVREIAQDFKTDLRFQSAAI................DTNLCAIHAKR   101
124486606|Mus_musculus/1-136             ...............MARTKQTARK..STGGNSPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASGAFLVGLFEDTNLCAIHAKR   117
163781084|Papio_anubis/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGIVALREIRRYQKSTELLIRKLPFQRLVREIAQGFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
225712146|Lepeophtheirus_salmoni/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKFPFQRLVREIAQDFRTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
117956112|Crassostrea_virginica/1-98     ......................ARK..STGGKDPRKRLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLL............   98
167519296|Monosiga_brevicollis/1-136     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.I.SGGVKKPH.RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAVGALQEAAEAYLVGLFEDTNLCAIHAKR   117
consensus                                 **********  *****APRKQLATKA ARKSA  P S TGGVKKPH RYRPGTVALREIRRYQKSTELL*RKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR

logo                                      VTIMPKDIQLARRIRGERA

297304242|Macaca_mulatta/1-120            VTIMPKDIQLARRIRGERA..............   120
55623240|Pan_troglodytes/1-136            VTIMPKDIQLARSIRGERA..............   136
37654354|Ciona_intestinalis/1-107         VTIMP................................   107
37654358|Drosophila_melanogaster/1-107    VTIMP................................   107
37654362|Sepia_officinalis/1-107          VTIMP................................   107
37654352|Homo_sapiens/1-107               VTIMP................................   107
148668461|Mus_musculus/1-141              VTIMPKDIQLARRICGERA..............   141
94395561|Mus_musculus/1-136               VTIMPKDIQLARRICGERA..............   136
296196448|Callithrix_jacchus/1-136        VTIMPKDIQLARRIRGERA..............   136
296196450|Callithrix_jacchus/1-120        VTIMPKDIQLARRIRGERA..............   120
296197909|Callithrix_jacchus/1-136        VTIMPKDIQLARHIRGERA..............   136
37654356|Oryctolagus_cuniculus/1-107      VTIMP................................   107
109132178|Macaca_mulatta/1-136            VTIMPKDIQLARHIRGERA..............   136
109070228|Macaca_mulatta/1-136            VTIMPKDIQLARRIRGERA..............   136
297290402|Macaca_mulatta/1-120            VTIMPKDIQLARRIRGERA..............   120
124486606|Mus_musculus/1-136              VTIMPKDIQLARRIRGERA..............   136
163781084|Papio_anubis/1-136              VTIMPKDIQLARHIRGERA..............   136
225712146|Lepeophtheirus_salmoni/1-136    VTIMPKDIQSARRIRGERA..............   136
117956112|Crassostrea_virginica/1-98      ....................................    98
167519296|Monosiga_brevicollis/1-136      VTIMPKDIQLARRIRGERA..............   136
consensus                                 VTIMP**************
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
19850232|Lysilla_pacifica/1-95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
149264718|Mus_musculus/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
309263002|Mus_musculus/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
109073005|Macaca_mulatta/1-136                                                                                                                                                                                                                                                                                                                                
158829361|Tessarobelus_inusitatu/1-110                                                                                                                                                                                                                                                                                
484531|Mus_musculus/1-135                                                                                                                                                                                                                                
38607178|Nuttallochiton_mirandus/1-109                                                                                                                                                                                
209734884|Salmo_salar/1-136                                                                                                                                
72398503|Craterostigma_plantagin/1-136                                                                                                
209730358|Salmo_salar/1-136                                                                                
291391379|Oryctolagus_cuniculus/1-136                                                                
296202276|Callithrix_jacchus/1-136                                                
296202278|Callithrix_jacchus/1-120                                
309264552|Mus_musculus/1-136                                
148671888|Mus_musculus/1-136                                
109048631|Macaca_mulatta/1-136                                
297286586|Macaca_mulatta/1-120                                
296190789|Callithrix_jacchus/1-120                                
296190787|Callithrix_jacchus/1-136                                
110645106|Echinaster_sentus/1-110                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
19850232|Lysilla_pacifica/1-95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
149264718|Mus_musculus/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
309263002|Mus_musculus/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
109073005|Macaca_mulatta/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
158829361|Tessarobelus_inusitatu/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
484531|Mus_musculus/1-135                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
38607178|Nuttallochiton_mirandus/1-109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
209734884|Salmo_salar/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
72398503|Craterostigma_plantagin/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
209730358|Salmo_salar/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
291391379|Oryctolagus_cuniculus/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
296202276|Callithrix_jacchus/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
296202278|Callithrix_jacchus/1-120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
309264552|Mus_musculus/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
148671888|Mus_musculus/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
109048631|Macaca_mulatta/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297286586|Macaca_mulatta/1-120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
296190789|Callithrix_jacchus/1-120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
296190787|Callithrix_jacchus/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
110645106|Echinaster_sentus/1-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                   MARTKQTARK  STGGKAPRKQLATKA ARKSA  P $  TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR

72088352|Strongylocentrotus_purp/1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
557666|Paracentrotus_lividus/1-136    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTELRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
268580349|Caenorhabditis_briggsa/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAVGALQEASEAYLVGLFEDTNLCAIHAKR  117
187026247|Caenorhabditis_briggsa/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAVGALQEASEAYLVGLFEDTNLCAIHAKR  117
170049060|Culex_quinquefasciatus/1-145 ......MYALRRETTMARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAVAALQEASEAYLVGLFEDTNLCAIHAKR  126
17556046|Caenorhabditis_elegans/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
268571359|Caenorhabditis_briggsa/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
308463123|Caenorhabditis_remanei/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
187030025|Caenorhabditis_briggsa/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
109463589|Rattus_norvegicus/1-136    ...............MARTKQTARK..STGGKAPRKQLATKA.SHKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
18255537|Mus_musculus/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
109109099|Macaca_mulatta/1-136         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLCFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
158255640|Homo_sapiens/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTEFLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
197099756|Pongo_abelii/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLAREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
197127819|Taeniopygia_guttata/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRXLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
221219366|Salmo_salar/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTGALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
47085683|Danio_rerio/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALGEIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
60392143|Venerupis_philippinarum/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRLQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
157129249|Aedes_aegypti/1-135           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAVAALQEASEAYLVGLFEDTNLCAIHAKR  117
56753077|Schistosoma_japonicum/1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAVGALQEASEAYLVGLFEDTNLCAIHAKR  117
consensus                              MARTKQTARK  STGGKAPRKQLATKA ARKSA  P *  TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAA*GALQEASEAYLVGLFEDTNLCAIHAKR

logo                                   VTIMPKDIQLARRIRGERA

72088352|Strongylocentrotus_purp/1-136  VTIMPKDIQLARRIRGERA.............  136
557666|Paracentrotus_lividus/1-136    VTIMPKDIQLARRIRGERA.............  136
268580349|Caenorhabditis_briggsa/1-136 VTIMPKDIQLARRIRGERA.............  136
187026247|Caenorhabditis_briggsa/1-136 VTIMPKDIQLARRIRGERA.............  136
170049060|Culex_quinquefasciatus/1-145 VTIMPKDIQLARRIRGERA.............  145
17556046|Caenorhabditis_elegans/1-136 VTIMPKDMQLARRIRGERA.............  136
268571359|Caenorhabditis_briggsa/1-136 VTIMPKDMQLARRIRGERA.............  136
308463123|Caenorhabditis_remanei/1-136 VTIMPKDMQLARRIRGERA.............  136
187030025|Caenorhabditis_briggsa/1-136 VTIMPKDMQLARRIRGERA.............  136
109463589|Rattus_norvegicus/1-136     VTIMPKDIQLARRILGERA.............  136
18255537|Mus_musculus/1-136           VTIMPKDIQLARRIRGERA.............  136
109109099|Macaca_mulatta/1-136        VTIMPKDIQLARRIRGERA.............  136
158255640|Homo_sapiens/1-136          VTIMPKDIQLARRIRGERA.............  136
197099756|Pongo_abelii/1-136          VTIMPKDIQLARRIRGERA.............  136
197127819|Taeniopygia_guttata/1-136   VTIMPKDIQLARRIRGERA.............  136
221219366|Salmo_salar/1-136           VTIMPKDIQLARRIRGERA.............  136
47085683|Danio_rerio/1-136            VTIMPKDIQLARRIRGERA.............  136
60392143|Venerupis_philippinarum/1-136 VTIMPKDIQLARRIRGERA.............  136
157129249|Aedes_aegypti/1-135         VTIMPKDIQLARRIRGER..............  135
56753077|Schistosoma_japonicum/1-136  VTIMPKDIQLARRIRGERA.............  136
consensus                             VTIMPKDIQLARRIRGERA
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
256086246|Schistosoma_mansoni/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAVGALQEASEAYLVGLFEDTNLCAIHAKR     117
225704390|Oncorhynchus_mykiss/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDANLCAIHAKR     117
58393832|Anopheles_gambiae/1-136         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAVAALQEASEAYLVGLFEDTNLCAIHAKR     117
226479672|Schistosoma_japonicum/1-131   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAVGALQEASEAYLVGLFEDTNLCAIHAKR     117
38607188|Lepidozona_mertensii/1-109      ......................RK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAVGALQ......................      86
37788205|Opecoelidae_sp./1-109           ......................RK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAVGALQ......................      86
170058987|Culex_quinquefasciatus/1-106   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAVAALQ......................      94
194388016|Homo_sapiens/1-113             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIHAKR......................      94
297458543|Bos_taurus/1-136               ...............MARTKQTASK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
296194752|Callithrix_jacchus/1-136        ...............MARTKQTATK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
225703532|Oncorhynchus_mykiss/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAVHAKR     117
291232989|Saccoglossus_kowalevsk/1-137   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..PAS.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDCNLCAIHAQR     118
225704430|Oncorhynchus_mykiss/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCATHAKR     117
484530|Mus_musculus/1-135                ................ARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAVHAKR     116
24581849|Drosophila_melanogaster/1-123   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNL.......      110
4761212|Squalus_acanthias/1-112           ......................ARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNL.......      103
30140414|Paranemertes_sp./1-110           ......................ARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNL.......      103
158829363|Neohodgsonius_sp./1-110         ......................ARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNL.......      103
158829367|Marchalina_hellenica/1-110      ......................ARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNL.......      103
83321168|Conochilus_hippocrepis/1-109     ......................RK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNL.......      102
consensus                                 *******ARK  STGGKAPRKQLATKA ARKSA  P S TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAA*GALQEASEAYLVGLFED*NL** ** *

logo

256086246|Schistosoma_mansoni/1-136      VTIMPKDIQLARRIRGERA.............      136
225704390|Oncorhynchus_mykiss/1-136      VTIMPKDIQLARRIRGERA.............      136
58393832|Anopheles_gambiae/1-136         VTIMPKDIQLARRIRGERA.............      136
226479672|Schistosoma_japonicum/1-131    VTIMPKDIQLARRI..................      131
38607188|Lepidozona_mertensii/1-109      ........AASESYLVGLFEDTNLCAIHAKR..      109
37788205|Opecoelidae_sp./1-109           ........AASEAYLVGLFEDTNLCAIHAKR..      109
170058987|Culex_quinquefasciatus/1-106   ........KLARRTWSDLIL.............      106
194388016|Homo_sapiens/1-113             VTIMPKDIQLARRIRGERA.............      113
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296194752|Callithrix_jacchus/1-136       VTIMPKDIQLARRIHGERA.............      136
225703532|Oncorhynchus_mykiss/1-136      VTIMPKDIQLARRIRGERA.............      136
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484530|Mus_musculus/1-135                VTIMPKDIQLACRIRGERA.............      135
24581849|Drosophila_melanogaster/1-123   .......WPDASVASGPKCP............      123
4761212|Squalus_acanthias/1-112          ...........CAIHAKRVT............      112
30140414|Paranemertes_sp./1-110           ...........CAIHAKR.............      110
158829363|Neohodgsonius_sp./1-110         ...........CAIHAKR.............      110
158829367|Marchalina_hellenica/1-110      ...........CAIHAKR.............      110
83321168|Conochilus_hippocrepis/1-109     ...........CAIHAKR.............      109
consensus                                 *************I ****
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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                                      WARTKQTARK STGGKAPRKQLATKA ARKSA P S TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR
265267360|Bombus_terrestris/1-109      .......................RK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNL.......  102
256387121|Nemertoderma_westbladi/1-92 ............................GGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGL............   92
256387125|Trilobodrilus_sp./1-92      ............................GGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGL............   92
256387135|Pycnophyes_kielensis/1-92   ............................GGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGL............   92
256387145|Xenoturbella_bocki/1-92     ............................GGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGL............   92
165940904|Ovis_aries/1-131            ......................QSGRK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  112
156548621|Nasonia_vitripennis/1-144  .......MYITSYFEMARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  125
51859376|Homo_sapiens/1-136           ...............MARTKQTAIK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
71895561|Gallus_gallus/1-136          ...............MARTKQTARK..FTGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
82886797|Mus_musculus/1-136           ...............MAITKQTARK..STGGKAPRKQLATKA.TRKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
291413441|Oryctolagus_cuniculus/1-136 ...............MARTKQTARK..STDEKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
307169358|Camponotus_floridanus/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.P.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
293360612|Rattus_norvegicus/1-136    ...............MARTKQTARK..STGGKAPRKQLATKA.SHKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
293348706|Rattus_norvegicus/1-136    ...............MARTKQTARK..STGGKAPRKQLATKA.TRKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
221221048|Salmo_salar/1-136           ...............MARTKQTARK..STGGKAPRKQLATRA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
208657743|Anopheles_darlingi/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARRSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
126697402|Haliotis_discus/1-136       ...............MARTKQTARK..STGGKAPRKQLATKA.ARRSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
89269109|Xenopus_(Silurana)/1-136    ...............MARTKQTARK..STGGKASRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
17567723|Caenorhabditis_elegans/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.I.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
197129764|Taeniopygia_guttata/1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPY.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR  117
consensus                             *********K  *TGGKAPRKQLATKA ARKSA  P S TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNL*******

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                                      VTIMPKDIQLARRIRGERA
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265267360|Bombus_terrestris/1-109      ...........CAIHAKR.............  109
256387121|Nemertoderma_westbladi/1-92 ................................   92
256387125|Trilobodrilus_sp./1-92      ................................   92
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71895561|Gallus_gallus/1-136          VTIMPKDIQLARRIRGERA.............  136
82886797|Mus_musculus/1-136           VTIMPKDIQLARRIRGERA.............  136
291413441|Oryctolagus_cuniculus/1-136 VTIMPKDIQLARRIRGERA.............  136
307169358|Camponotus_floridanus/1-136 VTIMPKDIQLARRIRGERA.............  136
293360612|Rattus_norvegicus/1-136    VTIMPKDIQLARRIRGERA.............  136
293348706|Rattus_norvegicus/1-136    VTIMPKDIQLARRIRGERA.............  136
221221048|Salmo_salar/1-136           VTIMPKDIQLARRIRGERA.............  136
208657743|Anopheles_darlingi/1-136   VTIMPKDIQLARRIRGERA.............  136
126697402|Haliotis_discus/1-136       VTIMPKDIQLARRIRGERA.............  136
89269109|Xenopus_(Silurana)/1-136    VTIMPKDIQLARRIRGERA.............  136
17567723|Caenorhabditis_elegans/1-136 VTIMPKDIQLARRIRGERA.............  136
197129764|Taeniopygia_guttata/1-136  VTIMPKDIQLARRIRGERA.............  136
consensus                             *************I***R*
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X non conserved
X similar
X ≥50% conserved
X ≥80% conserved

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28189276|Bos_taurus/1-96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
296194164|Callithrix_jacchus/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
198433034|Ciona_intestinalis/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
45384744|Chinchilla_lanigera/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
74204635|Mus_musculus/1-144                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
62204741|Mus_musculus/1-138                                                                                                                                                                                                                                                                                                                                
60543120|Conocephalum_conicum/1-136                                                                                                                                                                                                                                                                                
228551928|Osedax_sp./1-123                                                                                                                                                                                                                                                                                
228551930|Osedax_sp./1-123                                                                                                                                                                                                                                                                                
228551938|Osedax_sp./1-123                                                                                                                                                                                                                                                                                
189053462|Homo_sapiens/1-136                                                                                                                                                                                                                                                                                
47498318|Dolichopeza_subalbipes/1-118                                                                                                                                                                                                                                                                                
47498346|Negha_meridionalis/1-118                                                                                                                                                                                                                                                                                
37654350|Mus_musculus/1-107                                                                                                                                                                                                                                                                                
37654360|Hydra_vulgaris/1-107                                                                                                                                                                                                                                                                                
225704818|Oncorhynchus_mykiss/1-136                                                                                                                                                                                                                                                                                
118776378|Trichinella_spiralis/1-136                                                                                                                                                                                                                                                                                
48427895|Trichinella_pseudospira/1-136                                                                                                                                                                                                                                                                                
221130419|Hydra_magnipapillata/1-136                                                                                                                                                                                                                                                                                
196007812|Trichoplax_adhaerens/1-136                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                

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28189276|Bos_taurus/1-96                                                                                                                                                                                                                                                                                
296194164|Callithrix_jacchus/1-136                                                                                                                                                                                                                                                                                
198433034|Ciona_intestinalis/1-136                                                                                                                                                                                                                                                                                
45384744|Chinchilla_lanigera/1-136                                                                                                                                                                                                                                                                                
74204635|Mus_musculus/1-144                                                                                                                                                                                                                                                                                
62204741|Mus_musculus/1-138                                                                                                                                                                                                                                                                                
60543120|Conocephalum_conicum/1-136                                                                                                                                                                                                                                                                                
228551928|Osedax_sp./1-123                                                                                                                                                                                                                                                                                
228551930|Osedax_sp./1-123                                                                                                                                                                                                                                                                                
228551938|Osedax_sp./1-123                                                                                                                                                                                                                                                                                
189053462|Homo_sapiens/1-136                                                                                                                                                                                                                                                                                
47498318|Dolichopeza_subalbipes/1-118                                                                                                                                                                                                                                                                                
47498346|Negha_meridionalis/1-118                                                                                                                                                                                                                                                                                
37654350|Mus_musculus/1-107                                                                                                                                                                                                                                                                                
37654360|Hydra_vulgaris/1-107                                                                                                                                                                                                                                                                                
225704818|Oncorhynchus_mykiss/1-136                                                                                                                                                                                                                                                                                
118776378|Trichinella_spiralis/1-136                                                                                                                                                                                                                                                                                
48427895|Trichinella_pseudospira/1-136                                                                                                                                                                                                                                                                                
221130419|Hydra_magnipapillata/1-136                                                                                                                                                                                                                                                                                
196007812|Trichoplax_adhaerens/1-136                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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156356095|Nematostella_vectensis/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEAAEAYLVGLFEDTNLCAIHAKR   117
195114260|Drosophila_mojavensis/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
195035003|Drosophila_grimshawi/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
194856509|Drosophila_erecta/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
194761556|Drosophila_ananassae/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
193634279|Acyrthosiphon_pisum/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
170585288|Brugia_malayi/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
170063956|Culex_quinquefasciatus/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
157112482|Aedes_aegypti/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
156548619|Nasonia_vitripennis/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
149723295|Equus_caballus/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
149641481|Ornithorhynchus_anatin/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
126306915|Monodelphis_domestica/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
125984400|Drosophila_pseudoobscu/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
109018064|Macaca_mulatta/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
91089509|Tribolium_castaneum/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
66565026|Apis_mellifera/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
57089073|Canis_lupus/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
31241623|Anopheles_gambiae/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
308818211|Taeniopygia_guttata/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
consensus                                  MARTKQTARK  STGGKAPRKQLATKA ARKSA  P S TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR

logo                                       VTIMPKDIQLARRIRGERA

156356095|Nematostella_vectensis/1-136   VTIMPKDIQLARRIRGERA.............   136
195114260|Drosophila_mojavensis/1-136   VTIMPKDIQLARRIRGERA.............   136
195035003|Drosophila_grimshawi/1-136   VTIMPKDIQLARRIRGERA.............   136
194856509|Drosophila_erecta/1-136   VTIMPKDIQLARRIRGERA.............   136
194761556|Drosophila_ananassae/1-136   VTIMPKDIQLARRIRGERA.............   136
193634279|Acyrthosiphon_pisum/1-136   VTIMPKDIQLARRIRGERA.............   136
170585288|Brugia_malayi/1-136   VTIMPKDIQLARRIRGERA.............   136
170063956|Culex_quinquefasciatus/1-136   VTIMPKDIQLARRIRGERA.............   136
157112482|Aedes_aegypti/1-136   VTIMPKDIQLARRIRGERA.............   136
156548619|Nasonia_vitripennis/1-136   VTIMPKDIQLARRIRGERA.............   136
149723295|Equus_caballus/1-136   VTIMPKDIQLARRIRGERA.............   136
149641481|Ornithorhynchus_anatin/1-136   VTIMPKDIQLARRIRGERA.............   136
126306915|Monodelphis_domestica/1-136   VTIMPKDIQLARRIRGERA.............   136
125984400|Drosophila_pseudoobscu/1-136   VTIMPKDIQLARRIRGERA.............   136
109018064|Macaca_mulatta/1-136   VTIMPKDIQLARRIRGERA.............   136
91089509|Tribolium_castaneum/1-136   VTIMPKDIQLARRIRGERA.............   136
66565026|Apis_mellifera/1-136   VTIMPKDIQLARRIRGERA.............   136
57089073|Canis_lupus/1-136   VTIMPKDIQLARRIRGERA.............   136
31241623|Anopheles_gambiae/1-136   VTIMPKDIQLARRIRGERA.............   136
308818211|Taeniopygia_guttata/1-136   VTIMPKDIQLARRIRGERA.............   136
consensus                                  VTIMPKDIQLARRIRGERA
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283806664|Oryctolagus_cuniculus/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
281182698|Papio_anubis/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
148727266|Pan_troglodytes/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
148298806|Bombyx_mori/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
147906226|Xenopus_laevis/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
62177168|Bos_taurus/1-136                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
47522626|Sus_scrofa/1-136                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
46048708|Gallus_gallus/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
45360705|Xenopus_(Silurana)/1-136         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
41053381|Danio_rerio/1-136                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
17530867|Drosophila_melanogaster/1-136    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
16758888|Rattus_norvegicus/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
6680159|Mus_musculus/1-136                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
4504279|Homo_sapiens/1-136                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR   117
256387115|Anemonia_sulcata/1-92           ..............................GGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEAAEAYLVGL.............   92
38607216|Cryptoplax_japonica/1-109        ......................RK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASESYLVGLFEDTNLCAIHAKR   109
209736248|Salmo_salar/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGPFEDTNLCAIHAKR   117
60392145|Venerupis_philippinarum/1-136    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALSEASEAYLVGLFEDTNLCAIHAKR   117
296228942|Callithrix_jacchus/1-120        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAI................DTNLCAIHAKR   101
297281561|Macaca_mulatta/1-120            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAI................DTNLCAIHAKR   101
consensus                                 MARTKQTARK  STGGKAPRKQLATKA ARKSA  P S TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR

logo
283806664|Oryctolagus_cuniculus/1-136   VTIMPKDIQLARRIRGERA..............   136
281182698|Papio_anubis/1-136             VTIMPKDIQLARRIRGERA..............   136
148727266|Pan_troglodytes/1-136          VTIMPKDIQLARRIRGERA..............   136
148298806|Bombyx_mori/1-136              VTIMPKDIQLARRIRGERA..............   136
147906226|Xenopus_laevis/1-136           VTIMPKDIQLARRIRGERA..............   136
62177168|Bos_taurus/1-136                VTIMPKDIQLARRIRGERA..............   136
47522626|Sus_scrofa/1-136                VTIMPKDIQLARRIRGERA..............   136
46048708|Gallus_gallus/1-136             VTIMPKDIQLARRIRGERA..............   136
45360705|Xenopus_(Silurana)/1-136        VTIMPKDIQLARRIRGERA..............   136
41053381|Danio_rerio/1-136               VTIMPKDIQLARRIRGERA..............   136
17530867|Drosophila_melanogaster/1-136   VTIMPKDIQLARRIRGERA..............   136
16758888|Rattus_norvegicus/1-136         VTIMPKDIQLARRIRGERA..............   136
6680159|Mus_musculus/1-136               VTIMPKDIQLARRIRGERA..............   136
4504279|Homo_sapiens/1-136               VTIMPKDIQLARRIRGERA..............   136
256387115|Anemonia_sulcata/1-92          ................................    92
38607216|Cryptoplax_japonica/1-109       ................................   109
209736248|Salmo_salar/1-136              VTIMPKDIQLARRIRGERA..............   136
60392145|Venerupis_philippinarum/1-136   VTIMPKDIQLARRIRGERA..............   136
296228942|Callithrix_jacchus/1-120       VTIMPKDIQLARRIRGERA..............   120
297281561|Macaca_mulatta/1-120           VTIMPKDIQLARRIRGERA..............   120
consensus                                VTIMPKDIQLARRIRGERA
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
74139901|Mus_musculus/1-136                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEEYLVGLFEDTNLCAIHAKR     117
195161310|Drosophila_persimilis/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
195342652|Drosophila_sechellia/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
195386334|Drosophila_virilis/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
195432994|Drosophila_willistoni/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
195472777|Drosophila_yakuba/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
195576680|Drosophila_simulans/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
198414843|Ciona_intestinalis/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
241112266|Ixodes_scapularis/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
242020435|Pediculus_humanus/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
260788404|Branchiostoma_floridae/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
291224914|Saccoglossus_kowalevsk/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
296196730|Callithrix_jacchus/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
297661840|Pongo_abelii/1-136                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
301768993|Ailuropoda_melanoleuca/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
312076177|Loa_loa/1-136                         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
55977066|Spisula_solidissima/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
55977068|Drosophila_hydei/1-136                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
47215774|Tetraodon_nigroviridis/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
48290305|Oikopleura_dioica/1-136                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                                       MARTKQTARK  STGGKAPRKQLATKA ARKSA  P S TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR

logo                                            VTIMPKDIQLARRIRGERA

74139901|Mus_musculus/1-136                     VTIMPKDIQLARRIRGERA.............     136
195161310|Drosophila_persimilis/1-136           VTIMPKDIQLARRIRGERA.............     136
195342652|Drosophila_sechellia/1-136            VTIMPKDIQLARRIRGERA.............     136
195386334|Drosophila_virilis/1-136              VTIMPKDIQLARRIRGERA.............     136
195432994|Drosophila_willistoni/1-136           VTIMPKDIQLARRIRGERA.............     136
195472777|Drosophila_yakuba/1-136               VTIMPKDIQLARRIRGERA.............     136
195576680|Drosophila_simulans/1-136             VTIMPKDIQLARRIRGERA.............     136
198414843|Ciona_intestinalis/1-136              VTIMPKDIQLARRIRGERA.............     136
241112266|Ixodes_scapularis/1-136               VTIMPKDIQLARRIRGERA.............     136
242020435|Pediculus_humanus/1-136               VTIMPKDIQLARRIRGERA.............     136
260788404|Branchiostoma_floridae/1-136          VTIMPKDIQLARRIRGERA.............     136
291224914|Saccoglossus_kowalevsk/1-136          VTIMPKDIQLARRIRGERA.............     136
296196730|Callithrix_jacchus/1-136              VTIMPKDIQLARRIRGERA.............     136
297661840|Pongo_abelii/1-136                    VTIMPKDIQLARRIRGERA.............     136
301768993|Ailuropoda_melanoleuca/1-136          VTIMPKDIQLARRIRGERA.............     136
312076177|Loa_loa/1-136                         VTIMPKDIQLARRIRGERA.............     136
55977066|Spisula_solidissima/1-136              VTIMPKDIQLARRIRGERA.............     136
55977068|Drosophila_hydei/1-136                 VTIMPKDIQLARRIRGERA.............     136
47215774|Tetraodon_nigroviridis/1-136           VTIMPKDIQLARRIRGERA.............     136
48290305|Oikopleura_dioica/1-136                VTIMPKDIQLARRIRGERA.............     136
consensus                                       VTIMPKDIQLARRIRGERA
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
51814315|Gekko_japonicus/1-136                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
60392147|Venerupis_philippinarum/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
90819998|Graphocephala_atropunct/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
109716251|Pectinaria_gouldii/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
121543839|Maconellicoccus_hirsut/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
146741398|Pan_troglodytes/1-136                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
149212750|Aplysia_californica/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
149689030|Triatoma_infestans/1-136                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
197632043|Salmo_salar/1-136                       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
224924434|Stomoxys_calcitrans/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
225703498|Oncorhynchus_mykiss/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
225706860|Osmerus_mordax/1-136                    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
225713870|Lepeophtheirus_salmoni/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
225718188|Caligus_clemensi/1-136                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
229367186|Anoplopoma_fimbria/1-136                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
261335966|Heliconius_melpomene/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
283468930|Xenoturbella_bocki/1-136                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
289743147|Glossina_morsitans/1-136                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
291461559|Parasteatoda_tepidario/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
307095090|Triatoma_matogrossensi/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR     117
consensus                                         MARTKQTARK  STGGKAPRKQLATKA ARKSA  P S TGGVKKPH RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR

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51814315|Gekko_japonicus/1-136                  VTIMPKDIQLARRIRGERA..............     136
60392147|Venerupis_philippinarum/1-136            VTIMPKDIQLARRIRGERA..............     136
90819998|Graphocephala_atropunct/1-136            VTIMPKDIQLARRIRGERA..............     136
109716251|Pectinaria_gouldii/1-136                VTIMPKDIQLARRIRGERA..............     136
121543839|Maconellicoccus_hirsut/1-136            VTIMPKDIQLARRIRGERA..............     136
146741398|Pan_troglodytes/1-136                   VTIMPKDIQLARRIRGERA..............     136
149212750|Aplysia_californica/1-136               VTIMPKDIQLARRIRGERA..............     136
149689030|Triatoma_infestans/1-136                VTIMPKDIQLARRIRGERA..............     136
197632043|Salmo_salar/1-136                       VTIMPKDIQLARRIRGERA..............     136
224924434|Stomoxys_calcitrans/1-136               VTIMPKDIQLARRIRGERA..............     136
225703498|Oncorhynchus_mykiss/1-136               VTIMPKDIQLARRIRGERA..............     136
225706860|Osmerus_mordax/1-136                    VTIMPKDIQLARRIRGERA..............     136
225713870|Lepeophtheirus_salmoni/1-136            VTIMPKDIQLARRIRGERA..............     136
225718188|Caligus_clemensi/1-136                  VTIMPKDIQLARRIRGERA..............     136
229367186|Anoplopoma_fimbria/1-136                VTIMPKDIQLARRIRGERA..............     136
261335966|Heliconius_melpomene/1-136              VTIMPKDIQLARRIRGERA..............     136
283468930|Xenoturbella_bocki/1-136                VTIMPKDIQLARRIRGERA..............     136
289743147|Glossina_morsitans/1-136                VTIMPKDIQLARRIRGERA..............     136
291461559|Parasteatoda_tepidario/1-136            VTIMPKDIQLARRIRGERA..............     136
307095090|Triatoma_matogrossensi/1-136            VTIMPKDIQLARRIRGERA..............     136
consensus                                         VTIMPKDIQLARRIRGERA
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
307169357|Camponotus_floridanus/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR    117
307204447|Harpegnathos_saltator/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR    117
308321393|Ictalurus_furcatus/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR    117
308323577|Ictalurus_punctatus/1-136        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR    117
50981392|Felis_catus/1-122                 ..............................KAPRKQLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKR    103
3219792|Stylonychia_lemnae/1-114           ..........................NTGGKAPRKHIAHKQ.AKKSSAAA.A.TGGVKKPH.RFRPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQEYKSDLRFQSQAVLALQEAAEAYMVGLFEDTNLCAIHAKR    109
2909431|Stylonychia_lemnae/1-114           ..........................NTGGKAPRKHIAHKQ.AKKLSAAA.A.TGGVKKPH.RFRPGTVALREIRRFQKSTELLIRKLPFQRLVREIASEFKNDLRFQSSAVLALQEASEAYLVGLFEDTNLAAIHAKR    109
3219789|Stylonychia_lemnae/1-114           ..........................NTGGKAPRKHIAHKQ.AKKSSAAA.A.TGGVKKPH.RFRPGTVALREIRRFQKSTELLIRKLPFQRLVREIASEFKNDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR    109
3219803|Stylonychia_lemnae/1-114           ..........................NTGGKAPRKHIAHKQ.AKKSSAAA.A.TGGVKKPH.RFRPGTVALREIRRFQKSTELLIRKLPFQRLVREIASEFKNDLRFQSSAVLALQEASEAYLVGLFEDTNLAAIHAKR    109
3219790|Stylonychia_lemnae/1-112           ..........................QTGAKAPRKALANKA.ARKTA..P.A.DGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIASDYKSDLRFQSSAVAAIQEAAEAYMVGLFEDTNLCAIHAGR    107
118350238|Tetrahymena_thermophil/1-136     ...............MARTKQTARK..STSIKAPRKQLAAKA.ARKSA..P.I.SGGIKKPH.KFRPGTVALREIRKYQKTTDLLIRKLPFQRLVRDIAMEMKSDIRFQSQAILALQEAAEAYLVGLFEDTNLCAIHARR    117
89290167|Tetrahymena_thermophila/1-136     ...............MARTKQTARK..STSIKAPRKQLAAKA.ARKSA..P.I.SGGIKKPH.KFRPGTVALREIRKYQKTTDLLIRKLPFQRLVRDIAMEMKSDIRFQSQAILALQEAAEAYLVGLFEDTNLCAIHARR    117
122066|Tetrahymena_pyriformis/1-136         ...............MARTKQTARK..STGVKAPRKQLATKA.ARKSA..P.V.SGGVKKPH.KFRPGTVALREIRKYQKTTDLLIRKLPFQRLVRDIAMEMKNDIRFQSQAILALQEAAEAYLVGLFEDTNLCAIHARR    117
352175|Tetrahymena_pyriformis/1-135         ................ARTKQTARK..STGVKAPRKQLATKA.ARKSA..P.V.SGGVKKPH.KFRPGTVALREIRKYQKTTDLLIRKLPFQRLVRDIAMEMKNDIRFQSQAILALQEAAEAYLVGLFEDTNLCAIHARR    116
118350232|Tetrahymena_thermophil/1-136     ...............MARTKQTARK..STGVKAPRKQLATKA.ARKSA..P.V.SGGVKKPH.KFRPGTVALREIRKYQKTTDLLIRKLPFQRLVRDIAMEMKSDIRFQSQAILALQEAAEAYLVGLFEDTNLCAIHARR    117
89290164|Tetrahymena_thermophila/1-136     ...............MARTKQTARK..STGVKAPRKQLATKA.ARKSA..P.V.SGGVKKPH.KFRPGTVALREIRKYQKTTDLLIRKLPFQRLVRDIAMEMKSDIRFQSQAILALQEAAEAYLVGLFEDTNLCAIHARR    117
47496932|Oryza_sativa/1-125                ..........................M..QIAAVMEAPS.SRGV.ARKSV..P...FIGVKKPR.RHRPGTVALREIRKYQKNTELLIRKLPFQRLVREIAQHFKHDMRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHSKR    106
229595561|Tetrahymena_thermophil/1-136     ...............MARTKQTARK..STGAKAPRKQLASKA.ARKSA..P.A.TGGIKKPH.RFRPGTVALREIRKYQKSTDLLIRKLPFQRLVRDIAHEFKAPLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHARR    117
59799576|Tetrahymena_pyriformis/1-136       ...............MARTKQTARK..STGAKAPRKQLASKA.ARKSA..P.A.TGGIKKPH.RFRPGTVALREIRKYQKSTDLLIRKLPFQRLVRDIAHEFKAPLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHARR    117
225565825|Tetrahymena_thermophil/1-136     ...............MARTKQTARK..STGAKAPRKQLASKA.ARKSA..P.A.TGGIKKPH.RFRPGTVALREIRKYQKSTDLLIRKLPFQRLVRDIAHEFKAPLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHARR    117
consensus                                  **********  *TG*KAPRK**A*K* ARKS*  P   *GG*KKPH **RPGTVALREIR*YQK*T*LLIRKLPFQRLVR*IA **K*D*RFQS A**ALQEA*EAYLVGLFEDTNLCAIHA*R

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307169357|Camponotus_floridanus/1-136      VTIMPKDIQLARRIRGERA.............    136
307204447|Harpegnathos_saltator/1-136      VTIMPKDIQLARRIRGERA.............    136
308321393|Ictalurus_furcatus/1-136         VTIMPKDIQLARRIRGERA.............    136
308323577|Ictalurus_punctatus/1-136        VTIMPKDIQLARRIRGERA.............    136
50981392|Felis_catus/1-122                 VTIMPKDIQLARRIRGERA.............    122
3219792|Stylonychia_lemnae/1-114           VTIMP...........................    114
2909431|Stylonychia_lemnae/1-114           VTIMP...........................    114
3219789|Stylonychia_lemnae/1-114           VTIMP...........................    114
3219803|Stylonychia_lemnae/1-114           VTIMP...........................    114
3219790|Stylonychia_lemnae/1-112           VTIMP...........................    112
118350238|Tetrahymena_thermophil/1-136     VTIMTKDLHLARRIRGERF.............    136
89290167|Tetrahymena_thermophila/1-136     VTIMTKDLHLARRIRGERF.............    136
122066|Tetrahymena_pyriformis/1-136        VTIMTKDMQLARRIRGERF.............    136
352175|Tetrahymena_pyriformis/1-135        VTIMTKDMQLARRIRGERF.............    135
118350232|Tetrahymena_thermophil/1-136     VTIMTKDLHLARRIRGERF.............    136
89290164|Tetrahymena_thermophila/1-136     VTIMTKDLHLARRIRGERF.............    136
47496932|Oryza_sativa/1-125                VTIMSKDVQLARRIRGERL.............    125
229595561|Tetrahymena_thermophil/1-136     VTIMTKDMQLARRIRGERF.............    136
59799576|Tetrahymena_pyriformis/1-136      VTIMTKDMQLARRIRGERF.............    136
225565825|Tetrahymena_thermophil/1-136     VTIMTKDMQLARRIRGERF.............    136
consensus                                  VTIM**************
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                 4 3 2 1
                                                     ARTKQTARK STGGKAPRKQLATKA ARKSA P T GGVKKPH RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR 4 3 2 1
352174|Tetrahymena_pyriformis/1-135          ................ARTKQTARK..STGAKAPRKQLASKA.ARKSA..E.A.TGGIKKPH.RFRPGTVALREIRKYQKSTDLLIRKLPFQRLVRDIAHFFKAFLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHARR   116
3219788|Stylonychia_lemnae/1-114             ...........................NTGAKAPREQLANKA.ARKTAQVA.Q.SGGVKKPH.RFRPGTVALREIRKFQKSTELLIRKLPFQRLVREIAQEYKSDLRFQSQAVLALQEAAEAYMVGLFEDTNLCAIHAKR   109
3219791|Stylonychia_lemnae/1-114             ...........................NTGAKAPRKQLANKA.ARKSTNVN.A.VSGGVKKPH.RFRPGTVALREIRRFQKSTELLIRKLPFQRLVREIAQEYKSDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   109
47496935|Oryza_sativa/1-115                  ..........................................MQAA.ARKSA..P.C.IGGVKKPH.RYRPGTVALREIRKYQKNTELLIRKLPFQRLVREIAQLFKHDMRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHSKR    96
301111706|Phytophthora_infestans/1-136       ................MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.AGGVKKPH.RYRPGTVALREIRKYQKSTDLLIRKLPFQRLVREIAQDYKTDLRFQSTAILALQEASEAYLVGLLKDLKLCSIHAKR   117
15223698|Arabidopsis_thaliana/1-137          ................MARTKQTARK..STGGKGPRKELATKA.ARKTR..R.PYRGGVKHAH.RFRPGTVALREIRKYQKSTDLLIRKLPFQRLVREIAQDFKVDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   118
32401023|Griffithsia_japonica/1-136           ................MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.SGGVKKPH.RFRPGTVALREIRRFQKSTELLVRKLPFQRLVREIAQDFKSDLRFQSSAVLALQEAAEAYMVGLFEDTNLCAIHAKR   117
73919915|Griffithsia_japonica/1-136           ................MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.SGGVKKPH.RFRPGTVALREIRRFQKSTELLVRKLPFQRLVREIAQDFKSDLRFQSSAVLALQEAAEAYMVGLFEDTNLCAIHAKR   117
119370647|Lilium_longiflorum/1-137            ................MARTKQTARK..STGGKAPRKQLATKA.ARKSI..P.TGMGGMKRPR.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDYKTDLRFQSHAVLALQEGAEAYLVGIFEDTNLCAIHAKR   118
82568467|Lilium_longiflorum/1-135             ..................RTKQTARK..STGGKAPRKQLATKA.ARKSI..P.TGMGGMKRPR.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDYKTDLRFQSHAVLALQEGAEAYLVGIFEDTNLCAIHAKR   116
15238430|Arabidopsis_thaliana/1-139           ................MARTKQTARI..STGGKAPRKQLAPKA.ARQSA..P.A.TGGVKKPH.RFRPGTVALRDIRKYQKSTEILIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR   117
156082698|Babesia_bovis/1-136                ................MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.V.AAGVKKPH.RYRPGTVALREIRKFQKSTELLIRKLPFQRLVREIAEDFKTPLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
154796083|Babesia_bovis/1-136                ................MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.V.AAGVKKPH.RYRPGTVALREIRKFQKSTELLIRKLPFQRLVREIAEDFKTPLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
294999388|Oryza_sativa/1-136                  ................MARTKQTARK..STGGKAPRKQLGAKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTDMLIRKLPFQRLVREIAQDFKTDLYFQSSAVAALGEAAEAYLVGLFEDTNLCAIHAKR   117
15222272|Arabidopsis_thaliana/1-136           ................MARTKQSARK..SHGGKAPTKQLATKA.ARKSA..P.T.TGGVKKPH.RFRPGTVALREIRKYQKSTELLNRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
21555021|Arabidopsis_thaliana/1-136           ................MARTKQTARK..SHGGKAPTKQLATKA.ARKSA..P.T.TGGVKKPH.RFRPGTVALREIRKYQKSTELLNRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
195658485|Zea_mays/1-136                     ................MARTKQTAXK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPX.RYRPGTVALREIRKYQKSXELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTXLCAIHAKX   117
71027053|Theileria_parva/1-136                ................MARTKQTARK..STGGKAPRKQLATKA.ARKTA..P.V.TGGVKKPH.RYRPGTVALREIRKFQKSTELLIRKLPFQRLVREIAQDYKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
68350123|Theileria_parva/1-136                ................MARTKQTARK..STGGKAPRKQLATKA.ARKTA..P.V.TGGVKKPH.RYRPGTVALREIRKFQKSTELLIRKLPFQRLVREIAQDYKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
85000267|Theileria_annulata/1-136             ................MARTKQTARK..STGGKAPRKQLATKA.ARKTA..P.V.SGGVKKPH.RYRPGTVALREIRKFQKSTELLIRKLPFQRLVREIAQDYKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
consensus                                    *ARTKQTARK  STGGKAPRKQLA*KA ARK*A  P   *GGVKKPH R*RPGTVALREIRK*QKSTELLIRKLPFQRLVREIAQD*K*DLRFQS AVLALQEAAEAYLVGLFEDTNLCAIHAKR
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logo                                                 4 3 2 1
                                                     VTIMPKDMQLARRIRGERA 4 3 2 1
352174|Tetrahymena_pyriformis/1-135          VTIMTKDMQLARRIRGERF.............   135
3219788|Stylonychia_lemnae/1-114             VTIMP...........................   114
3219791|Stylonychia_lemnae/1-114             VTIMP...........................   114
47496935|Oryza_sativa/1-115                  VTIMSKDVQLARRIRGERL.............   115
301111706|Phytophthora_infestans/1-136       VTIMLKDIQLARPIRGERT.............   136
15223698|Arabidopsis_thaliana/1-137          VTIMSKDIQLARRIRGERA.............   137
32401023|Griffithsia_japonica/1-136          VTIMPKDIQLARRIRGERT.............   136
73919915|Griffithsia_japonica/1-136          VTIMPKDIQLARRIRGERT.............   136
119370647|Lilium_longiflorum/1-137           VTIMPKDIQLARRIRGERA.............   137
82568467|Lilium_longiflorum/1-135            VTIMPKDIQLARRIRGERA.............   135
15238430|Arabidopsis_thaliana/1-139          VTIMPKEIQLARRIRGERARGE..........   139
156082698|Babesia_bovis/1-136                VTIMPKDIQLARRIRGERA.............   136
154796083|Babesia_bovis/1-136                VTIMPKDIQLARRIRGERA.............   136
294999388|Oryza_sativa/1-136                 VTIMPKDIQLARRIRGERA.............   136
15222272|Arabidopsis_thaliana/1-136          VTIMPKDVQLARRIRAERA.............   136
21555021|Arabidopsis_thaliana/1-136          VTIMPKDVQLARRIRAERA.............   136
195658485|Zea_mays/1-136                     VTIMPKDIQLARRIRGERA.............   136
71027053|Theileria_parva/1-136               VTIMPKDVHLARRIRGERA.............   136
68350123|Theileria_parva/1-136               VTIMPKDVHLARRIRGERA.............   136
85000267|Theileria_annulata/1-136            VTIMPKDVHLARRIRGERA.............   136
consensus                                    VTIMPKD**LARRIRGER*
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
65302998|Theileria_annulata/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKTA..P.V.SGGVKKPH.RYRPGTVALREIRKFQKSTELLIRKLPFQRLVREIAQDYKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
301090188|Phytophthora_infestans/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.AGGVKKPH.RYRPGTVALREIRKYQKSTDLLIRKLPFQRLVREIAQDYKTDLRFQSTAILALQEASEAYLVGLFEDTNLCAIHAKR   117
60617984|Plasmopara_halstedii/1-113          ..........................R..STGGKAPRKQLATKA.ARKSA..P.T.AGGVKKPH.RYRPGTVALREIRKYQKSTDLLIRKLPFQRLVREIAQDYKTDLRFQSTAILALQEASEAYLVGLFEDTNLCAIHAKR   108
1053053|Hordeum_vulgare/1-127               ...............MARTKQTARK..STGGKAPRKQLATQA.ARKSA..R.T.TGRLKKLH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLRGLFEDTNLCAIHAKR   117
119370645|Lilium_longiflorum/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKADLRFQSSAVAALQEASESYLVGLFEDTNLCAIHAKR   117
169793|Oryza_sativa/1-136                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQTSAVRALQEAAERYLVGLFEDTNLCAIHAKR   117
940018|Oryza_sativa/1-136                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQTSAVRALQEAAERYLVGLFEDTNLCAIHAKR   117
219121565|Phaeodactylum_tricornu/1-136       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.AGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKAPFQRLVREIAQDFKNDLRFQSTAVLALQEASEAYLVGLFEDTNLCAIHAKR   117
224009486|Thalassiosira_pseudona/1-136       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.AGGVKKPH.RYRPGTVALREIRKYQKSTDLLIRKAPFQRLVREIAQDFKTDLRFQSTAVLALQEASEAYLVGLFEDTNLCAIHAKR   117
34101298|Amphicarpaea_bracteata/1-99         ..........................................A.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFXSHAVLALQEAAEAYLVGLFEDTNLCAIHXKR    93
163914165|Vitis_hybrid/1-139                 ...........RGSMARTMMLSGS..PLEFRLHAKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR   120
1708109|Chlamydomonas_reinhardti/1-135       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKT...P.A.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSQAVVALQEAAEAYLVGLFEDTNLCAITAKR   116
302846365|Volvox_carteri/1-135               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKT...P.A.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQTQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   116
75275272|Chlamydomonas_reinhardt/1-135       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKT...P.A.TGGVKKPH.RYRPGTVALREIRKYQKSTELVIRKLPFQRLVREIAQDFKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   116
159480232|Chlamydomonas_reinhard/1-135       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKT...P.A.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   116
159476722|Chlamydomonas_reinhard/1-111       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKT...P.A.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCA.....   111
159464884|Chlamydomonas_reinhard/1-135       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKT...P.A.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   116
302829090|Volvox_carteri/1-135               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKT...P.A.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   116
159465595|Chlamydomonas_reinhard/1-134       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKT...P.A.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   116
159476918|Chlamydomonas_reinhard/1-133       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKT...P.A.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSQAVLALQEAAEAYLVGLFEDTNLCAIHAKR   116
consensus                                    MARTKQTARK  STGGKAPRKQLATKA ARK**  P * *GGVKKPH RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQS*AV*ALQEA*EAYLVGLFEDTNLCAIHAKR

logo

65302998|Theileria_annulata/1-136          VTIMPKDVHLARRIRGERA.............   136
301090188|Phytophthora_infestans/1-136      VTIMPKDIQLARRIRGERT.............   136
60617984|Plasmopara_halstedii/1-113         VTIMP...........................   113
1053053|Hordeum_vulgare/1-127               VTIMPKDIQL......................   127
119370645|Lilium_longiflorum/1-136           VTIMPKDIQLARRIRGERA.............   136
169793|Oryza_sativa/1-136                   VTIMPKDIQLARRIRGERA.............   136
940018|Oryza_sativa/1-136                   VTIMPKDIQLARRIRGERA.............   136
219121565|Phaeodactylum_tricornu/1-136       VTIMPKDIQLARRIRGERA.............   136
224009486|Thalassiosira_pseudona/1-136       VTIMPKDIQLARRIRGERA.............   136
34101298|Amphicarpaea_bracteata/1-99         VTXMPK..........................    99
163914165|Vitis_hybrid/1-139                 VTIMPKDIQLARRIRGERA.............   139
1708109|Chlamydomonas_reinhardti/1-135       VTIMPKDIQLARRIRGERA.............   135
302846365|Volvox_carteri/1-135               VTIMPKDIQLARRIRGERA.............   135
75275272|Chlamydomonas_reinhardt/1-135       VTIMPKDIQLARRIRGERA.............   135
159480232|Chlamydomonas_reinhard/1-135       VTIMPKDIQLARRVRGERA.............   135
159476722|Chlamydomonas_reinhard/1-111       ................................   111
159464884|Chlamydomonas_reinhard/1-135       VTIMPKDIQLARRIRGERA.............   135
302829090|Volvox_carteri/1-135               VTIMPKDIQLARRIRGERA.............   135
159465595|Chlamydomonas_reinhard/1-134       VTIMPKDIQLARRIRGER..............   134
159476918|Chlamydomonas_reinhard/1-133       VTIMPKDIQLARRIRGE...............   133
consensus                                    VTIMPKDIQLARR*RGE**
```

X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                  4 MARTKQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RERPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVALQEAAEAYLVGLFEDTNLCAIHAKR 4
                                                      3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
2 TGGVKKPH RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVALQEAAEAYPVGLFEETNL....... 110
1 TGGVKKPH RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKIDLRFQSHAVLALQEAAEAYLVGLFEDTNLCATHAKR 117
1 TGGVKKPH RYRPGTVALREIRKYQKSTDLLIRKLPFQRLLREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNPCAIHAKR 117
1 TGGVKKPH RYRPGTVALREIRKYQKSTDLLIRKLPFQRLVREIAQDYKADLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR 117
1 TGGVKKPH RYRPGTVALREIRKYQKSTDLLIRKLPFQRLVREIAQDYKADLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR 115
1 TGGVKKPH RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAESYLVGLFEDTNLCAIHAKR 117
1 TGGVKKSH RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAESYLVGLFEDTNLCAIHAKR 117
1 TGGVKKPH RFRPGTVALREIRKYQKSTELLIRKLRFQRLVREIAQDFNTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR 117
1 TGGVKKPH RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAILALQEASEAYLVGLFEDTNLCAIHAKR 117
1 TGGVKKPH RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSTAVAALQEAAEAYLVGLFEDTNLCAIHAKR 117
1 TGGVKKPH RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR 117
1 TGGVKKPH RFRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR 116
1 TGGVKKPH RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEAAESYLVGLFEDTNLCAIHAKR 117
1 TGGVKKPH RFRPGTVALREIRKYQKSTDLLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR 117
1 TGGVKKPH RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR 117
1 TGGVKKPH RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR 117
1 TGGVKKPH RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR 117
1 TGGVKKPH RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR 117
1 TGGVKKPH RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR 117
1 TGGVKKPH RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR 117
consensus MARTKQTARK STGGKAPRKQLATKA ARKSA P * TGGVKKPH R*RPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQS*AV*ALQEAAEAYLVGLFEDTNLCAIHAKR
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logo                                                  4 VTIMPKDIQLARRIRGERA 4
                                                      3                     3
                                                      2                     2
                                                      1                     1
157043071|Dunaliella_salina/1-110                     ..................................  110
33772147|Malus_x/1-135                                VTIMPKDIQLARRIRCER...............  135
1053059|Triticum_aestivum/1-127                       VTIMPKDIQL.......................  127
119370646|Lilium_longiflorum/1-136                    VTIMPKDIQLARRIRGERA..............  136
82568471|Lilium_longiflorum/1-134                     VTIMPKDIQLARRIRGERA..............  134
55775689|Camellia_sinensis/1-136                      VTIMPKDMQLARRIRGERA..............  136
68342452|Rheum_australe/1-136                         VTIMPKDMQLARRIRGERA..............  136
294999384|Oryza_sativa/1-136                          VTIMPKDIQLARRIRGERA..............  136
303276533|Micromonas_pusilla/1-136                    VTIMPKDIQLARRIRGERA..............  136
145349686|Ostreococcus_lucimarin/1-136                VTIMPKDIQLARRIRGERA..............  136
167523176|Monosiga_brevicollis/1-136                  VTIMPKDIQLARRIRGERA..............  136
122045178|Encephalartos_altenste/1-136                VTIMPKDIQLARRIRGERA..............  136
224865|Encephalartos_sp./1-135                        VTIMPKDIQLARRIRGERA..............  135
300681467|Triticum_aestivum/1-136                     VTIMPKDIQLARRIRGERA..............  136
224284663|Picea_sitchensis/1-136                      VTIMPKDIQLARRIRGERA..............  136
195606482|Zea_mays/1-136                              VTIMPKDIQLARRIRGERA..............  136
15232146|Arabidopsis_thaliana/1-136                   VTIMPKDIQLARRIRGERA..............  136
115441249|Oryza_sativa/1-136                          VTIMPKDIQLARRIRGERA..............  136
212721652|Zea_mays/1-136                              VTIMPKDIQLARRIRGERA..............  136
224053380|Populus_trichocarpa/1-136                   VTIMPKDIQLARRIRGERA..............  136
consensus                                             VTIMPKDIQLARRIRGERA
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
225431587|Vitis_vinifera/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
242056349|Sorghum_bicolor/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
255562996|Ricinus_communis/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
297811141|Arabidopsis_lyrata/1-136       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
59799553|Petroselinum_crispum/1-136       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
62286642|Euphorbia_esula/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
73919911|Asparagus_officinalis/1-136      ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
73919912|Brassica_napus/1-136             ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
75138727|Nicotiana_tabacum/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
158512928|Oryza_sativa/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
20251|Oryza_sativa/1-136                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
22324934|Orobanche_cernua/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
72255621|Brassica_rapa/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
116780664|Picea_sitchensis/1-136           ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
151413349|Nicotiana_benthamiana/1-136     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
192913026|Elaeis_guineensis/1-136          ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
196166894|Ziziphus_jujuba/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
225459|Helicoverpa_zea/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR     117
166384|Medicago_sativa/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSVVSALQEAAEAYLVGLFEDTNLCAIHAKR     117
55977041|Pisum_sativum/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEAAEAYLVGLFEDTNLCAIHAKR     117
consensus                                  MARTKQTARK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEAAEAYLVGLFEDTNLCAIHAKR

logo

225431587|Vitis_vinifera/1-136          VTIMPKDIQLARRIRGERA.............     136
242056349|Sorghum_bicolor/1-136          VTIMPKDIQLARRIRGERA.............     136
255562996|Ricinus_communis/1-136          VTIMPKDIQLARRIRGERA.............     136
297811141|Arabidopsis_lyrata/1-136       VTIMPKDIQLARRIRGERA.............     136
59799553|Petroselinum_crispum/1-136       VTIMPKDIQLARRIRGERA.............     136
62286642|Euphorbia_esula/1-136            VTIMPKDIQLARRIRGERA.............     136
73919911|Asparagus_officinalis/1-136      VTIMPKDIQLARRIRGERA.............     136
73919912|Brassica_napus/1-136             VTIMPKDIQLARRIRGERA.............     136
75138727|Nicotiana_tabacum/1-136          VTIMPKDIQLARRIRGERA.............     136
158512928|Oryza_sativa/1-136              VTIMPKDIQLARRIRGERA.............     136
20251|Oryza_sativa/1-136                  VTIMPKDIQLARRIRGERA.............     136
22324934|Orobanche_cernua/1-136           VTIMPKDIQLARRIRGERA.............     136
72255621|Brassica_rapa/1-136              VTIMPKDIQLARRIRGERA.............     136
116780664|Picea_sitchensis/1-136          VTIMPKDIQLARRIRGERA.............     136
151413349|Nicotiana_benthamiana/1-136     VTIMPKDIQLARRIRGERA.............     136
192913026|Elaeis_guineensis/1-136         VTIMPKDIQLARRIRGERA.............     136
196166894|Ziziphus_jujuba/1-136           VTIMPKDIQLARRIRGERA.............     136
225459|Helicoverpa_zea/1-136              VTIMPKDIQLARRIRGERA.............     136
166384|Medicago_sativa/1-136              VTIMPKDIQLARRIRGERA.............     136
55977041|Pisum_sativum/1-136              VTIMPKDIQLARRIRGERA.............     136
consensus                                 VTIMPKDIQLARRIRGERA
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                   4 MARTKQTARK STGGKAPRKQLATKA ARKSA P A TGGVKKPH RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEAAEAYLVGLFEDTNLCAIHAKR 4
                                       3                                                                                                                 3
                                       2                                                                                                                 2
                                       1                                                                                                                 1
55977043|Triticum_aestivum/1-136       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEAAEAYLVGLFEDTNLCAIHAKR   117
55977044|Medicago_sativa/1-136         ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEAAEAYLVGLFEDTNLCAIHAKR   117
55977045|Onobrychis_viciifolia/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEAAEAYLVGLFEDTNLCAIHAKR   117
195605922|Zea_mays/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEAAEAYLVGLFEDTNLCAIHAKR   117
217075590|Medicago_truncatula/1-136   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEAAEAYLVGLFEDTNLCAIHAKR   117
255628465|Glycine_max/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEAAEAYLVGLFEDTNLCAIHAKR   117
270315170|Wolffia_arrhiza/1-136        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEAAEAYLVGLFEDTNLCAIHAKR   117
294462026|Picea_sitchensis/1-136       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEAAEAYLVGLFEDTNLCAIHAKR   117
19611|Medicago_sativa/1-123            ..............................GKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEAAEAYLVGLFEDTNLCAIHAKR   104
2916748|Pisum_sativum/1-123            ..............................GKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVSALQEAAEAYLVGLFEDTNLCAIHAKR   104
15222297|Arabidopsis_thaliana/1-136    ...............MARTKQTARK..SHGGKAPRTLLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDYKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
34101270|Amphicarpaea_bracteata/1-95   ..........................................A.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEHTNLCAIHAKR    93
307102725|Chlorella_variabilis/1-127   ...............MARTKQTARK..STGGKAPRKQLATKA.RP...........QKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR   108
297831674|Arabidopsis_lyrata/1-136     ...............MARTKQTARK..SHGGKAPRKLLATKA.ARKSA..P.S.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
308081499|Zea_mays/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVAALQEASEAYLVGLFEDTNLCAIHAKR   117
76362313|Nephrolepis_auriculata/1-103  ................................RKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR   100
76362311|Cornopteris_decurrenti-/1-103 ................................RKQLATKA.ARKSA..P.A.TGGVKKPH.RFRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR   100
1053057|Triticum_aestivum/1-127        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALRETRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
302807656|Selaginella_moellendor/1-136 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDYKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
195611240|Zea_mays/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTDLLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
consensus                              **********  ***GKAPRKQLATKA ARKSA  P * TGGVKKPH R*RPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQS*AV*ALQEAAEAYLVGLFEDTNLCAIHAKR

logo                                   4 VTIMPKDIQLARRIRGERA 4
                                       3                     3
                                       2                     2
                                       1                     1
55977043|Triticum_aestivum/1-136       VTIMPKDIQLARRIRGERA.............   136
55977044|Medicago_sativa/1-136         VTIMPKDIQLARRIRGERA.............   136
55977045|Onobrychis_viciifolia/1-136   VTIMPKDIQLARRIRGERA.............   136
195605922|Zea_mays/1-136               VTIMPKDIQLARRIRGERA.............   136
217075590|Medicago_truncatula/1-136    VTIMPKDIQLARRIRGERA.............   136
255628465|Glycine_max/1-136            VTIMPKDIQLARRIRGERA.............   136
270315170|Wolffia_arrhiza/1-136        VTIMPKDIQLARRIRGERA.............   136
294462026|Picea_sitchensis/1-136       VTIMPKDIQLARRIRGERA.............   136
19611|Medicago_sativa/1-123            VTIMPKDIQLARRIRGERA.............   123
2916748|Pisum_sativum/1-123            VTIMPKDIQLARRIRGERA.............   123
15222297|Arabidopsis_thaliana/1-136    VTIMPKDVQLARRIRGERA.............   136
34101270|Amphicarpaea_bracteata/1-95   VT.............................    95
307102725|Chlorella_variabilis/1-127   VTIMPKDIQLARRIRGERA.............   127
297831674|Arabidopsis_lyrata/1-136     VTIMPKDVQLARRIRGERA.............   136
308081499|Zea_mays/1-136               VTIMPKDIQLARRIRVERA.............   136
76362313|Nephrolepis_auriculata/1-103  VTI............................   103
76362311|Cornopteris_decurrenti-/1-103 VTI............................   103
1053057|Triticum_aestivum/1-127        VTIMPKDIQL.....................   127
302807656|Selaginella_moellendor/1-136 VTIMPKDIQLARRIRGERA.............   136
195611240|Zea_mays/1-136               VTIMPKDIQLARRIRGERA.............   136
consensus                              VTIMPKD*QLARRIR*ERA
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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195658747|Zea_mays/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283777740|Lolium_perenne/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
1053045|Glycine_max/1-127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
294769204|Cynanchum_mongolicum/1-114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
12641619|Beta_vulgaris/1-98                                                                                                                                                                                                                                                                                                                                
15236103|Arabidopsis_thaliana/1-136                                                                                                                                                                                                                                                                                                                                
115453351|Oryza_sativa/1-136                                                                                                                                                                                                                                                                                                                                
212721898|Zea_mays/1-136                                                                                                                                                                                                                                                                                                                                
167998945|Physcomitrella_patens/1-136                                                                                                                                                                                                                                                                                                                
224062043|Populus_trichocarpa/1-136                                                                                                                                                                                                                                                                                                                
225431185|Vitis_vinifera/1-136                                                                                                                                                                                                                                                                                                                
242040731|Sorghum_bicolor/1-136                                                                                                                                                                                                                                                                                                                
255538848|Ricinus_communis/1-136                                                                                                                                                                                                                                                                                                                
297811211|Arabidopsis_lyrata/1-136                                                                                                                                                                                                                                                                                                                
302792052|Selaginella_moellendor/1-136                                                                                                                                                                                                                                                                                                
54035960|Gossypium_hirsutum/1-136                                                                                                                                                                                                                                                                                                
59799551|Lolium_temulentum/1-136                                                                                                                                                                                                                                                                                                
59799580|Medicago_sativa/1-136                                                                                                                                                                                                                                                                                                
73919913|Capsicum_annuum/1-136                                                                                                                                                                                                                                                                                                
73919918|Oryza_coarctata/1-136                                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
195658747|Zea_mays/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
283777740|Lolium_perenne/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
1053045|Glycine_max/1-127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
294769204|Cynanchum_mongolicum/1-114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
12641619|Beta_vulgaris/1-98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
15236103|Arabidopsis_thaliana/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
115453351|Oryza_sativa/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
212721898|Zea_mays/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
167998945|Physcomitrella_patens/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
224062043|Populus_trichocarpa/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
225431185|Vitis_vinifera/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
242040731|Sorghum_bicolor/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
255538848|Ricinus_communis/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
297811211|Arabidopsis_lyrata/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
302792052|Selaginella_moellendor/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
54035960|Gossypium_hirsutum/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
59799551|Lolium_temulentum/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
59799580|Medicago_sativa/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
73919913|Capsicum_annuum/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
73919918|Oryza_coarctata/1-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
73919919|Pinus_pinaster/1-136                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
75138729|Nicotiana_tabacum/1-136                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
119370648|Lolium_multiflorum/1-136                ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
158512877|Oryza_sativa/1-136                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
1435157|Solanum_lycopersicum/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
62642117|Picea_abies/1-136                        ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
72398499|Craterostigma_plantagin/1-136            ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
106879571|Plantago_major/1-136                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
115394199|Robinia_pseudoacacia/1-136              ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
116779721|Picea_sitchensis/1-136                  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
118489220|Populus_trichocarpa/1-136               ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
144953503|Lemna_minor/1-136                       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
192910840|Elaeis_guineensis/1-136                 ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
224814382|Pteris_vittata/1-136                    ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
255625589|Glycine_max/1-136                       ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
295002522|Jatropha_curcas/1-136                   ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
298569751|Oryza_sativa/1-136                     ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     117
4574208|Syntrichia_ruralis/1-117                  ......................AR.............ATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR      98
488571|Medicago_sativa/1-127                     ........................K..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     108
488573|Medicago_sativa/1-124                     ............................GGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR     105
consensus                                        MARTKQTARK  STGGKAPRKQLATKA ARKSA  P T TGGVKKPH RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR

logo                                             VTIMPKDIQLARRIRGERA

73919919|Pinus_pinaster/1-136                    VTIMPKDIQLARRIRGERA..............     136
75138729|Nicotiana_tabacum/1-136                 VTIMPKDIQLARRIRGERA..............     136
119370648|Lolium_multiflorum/1-136               VTIMPKDIQLARRIRGERA..............     136
158512877|Oryza_sativa/1-136                     VTIMPKDIQLARRIRGERA..............     136
1435157|Solanum_lycopersicum/1-136               VTIMPKDIQLARRIRGERA..............     136
62642117|Picea_abies/1-136                       VTIMPKDIQLARRIRGERA..............     136
72398499|Craterostigma_plantagin/1-136           VTIMPKDIQLARRIRGERA..............     136
106879571|Plantago_major/1-136                   VTIMPKDIQLARRIRGERA..............     136
115394199|Robinia_pseudoacacia/1-136             VTIMPKDIQLARRIRGERA..............     136
116779721|Picea_sitchensis/1-136                 VTIMPKDIQLARRIRGERA..............     136
118489220|Populus_trichocarpa/1-136              VTIMPKDIQLARRIRGERA..............     136
144953503|Lemna_minor/1-136                      VTIMPKDIQLARRIRGERA..............     136
192910840|Elaeis_guineensis/1-136                VTIMPKDIQLARRIRGERA..............     136
224814382|Pteris_vittata/1-136                   VTIMPKDIQLARRIRGERA..............     136
255625589|Glycine_max/1-136                      VTIMPKDIQLARRIRGERA..............     136
295002522|Jatropha_curcas/1-136                  VTIMPKDIQLARRIRGERA..............     136
298569751|Oryza_sativa/1-136                     VTIMPKDIQLARRIRGERA..............     136
4574208|Syntrichia_ruralis/1-117                 VTIMPKDIQLARRIRGERA..............     117
488571|Medicago_sativa/1-127                     VTIMPKDIQLARRIRGERA..............     127
488573|Medicago_sativa/1-124                     VTIMPKDIQLARRIRGERA..............     124
consensus                                        VTIMPKDIQLARRIRGERA
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
829279|Medicago_sativa/1-119                  .....RKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   100
242062060|Sorghum_bicolor/1-112                  .....A.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR    93
156720463|Nicotiana_tabacum/1-112                 .....A.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR    93
147826736|Vitis_vinifera/1-137                   .....MMARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   118
296083584|Vitis_vinifera/1-147                   ....REEEAREGERMARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   128
297808967|Arabidopsis_lyrata/1-136               .....MARTKQTARK..SHGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
1053047|Glycine_max/1-127                        .....MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
62642121|Picea_abies/1-141                       .....MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
18698662|Oryza_sativa/1-136                      .....MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
62642119|Picea_abies/1-136                       .....MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
10732809|Rubus_idaeus/1-132                      .....MARTKETARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
195638846|Zea_mays/1-136                         .....MARTKXTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
34101261|Amphicarpaea_bracteata/1-100            .....A.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR    93
34101280|Amphicarpaea_edgeworthi/1-100           .....A.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR    93
282848238|Jatropha_curcas/1-122                  .....MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   117
145203147|Lemna_minor/1-112                      .....ARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR   110
34101265|Amphicarpaea_bracteata/1-95             .....A.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR    93
158829359|Monophlebulus_sp./1-110                .....ARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLAAIHAKR   110
83655599|Mesognatharia_remanei/1-109             .....G..GTGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR   109
308503529|Caenorhabditis_remanei/1-136           .....MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR   117
consensus                                        ***** ****  **************A ARKSA  P T TGGVKKPH RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKR

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
829279|Medicago_sativa/1-119                  VTIMPKDIQLARRIRGERA.............   119
242062060|Sorghum_bicolor/1-112                  VTIMPKDIQLARRIRGERA.............   112
156720463|Nicotiana_tabacum/1-112                VTIMPKDIQLARRIRGERA.............   112
147826736|Vitis_vinifera/1-137                   VTIMPKDIQLARRIRGERA.............   137
296083584|Vitis_vinifera/1-147                   VTIMPKDIQLARRIRGERA.............   147
297808967|Arabidopsis_lyrata/1-136               VTIMPKDVQLARRIRGERA.............   136
1053047|Glycine_max/1-127                        VTVMPKDIQL......................   127
62642121|Picea_abies/1-141                       VTIMPKDIQLARRIPRGKGLRFDL........   141
18698662|Oryza_sativa/1-136                      VTIMPKDIKLARRIRGERA.............   136
62642119|Picea_abies/1-136                       VTIMPKDXQLARRIRGERA.............   136
10732809|Rubus_idaeus/1-132                      VTIMPKDIQLARRIR.................   132
195638846|Zea_mays/1-136                         VTIMPKDIQLARRIRGERA.............   136
34101261|Amphicarpaea_bracteata/1-100            VTIMPKA.........................   100
34101280|Amphicarpaea_edgeworthi/1-100           VTIMPKA.........................   100
282848238|Jatropha_curcas/1-122                  VTIMP...........................   122
145203147|Lemna_minor/1-112                      VT..............................   112
34101265|Amphicarpaea_bracteata/1-95             VT..............................    95
158829359|Monophlebulus_sp./1-110                ................................   110
83655599|Mesognatharia_remanei/1-109             ................................   109
308503529|Caenorhabditis_remanei/1-136           VTIMPKDIQLARRIRGERA.............   136
consensus                                        VT*MP**************
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

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logo                                   4 3 2 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 3 2 1
83655607|Valvognathia_pogonostom/1-109  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR  109
90184348|Boophis_tephraeomystax/1-109  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR  109
90184350|Boophis_albilabris/1-109  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR  109
90184602|Staurois_tuberilinguis/1-109  .....................RK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR  109
83655605|Tenuignathia_rikerae/1-104  ..............................GGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAK.  104
255078048|Micromonas_sp./1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAILALQEASEAYLVGLFEDTNLCAIHAKR  117
303279857|Micromonas_pusilla/1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAILALQEASEAYLVGLFEDTNLCAIHAKR  117
145347216|Ostreococcus_lucimarin/1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  117
168001493|Physcomitrella_patens/1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEASEAYLVGLFEDTNLCAIHAKR  117
307103418|Chlorella_variabilis/1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.T.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR  117
302757896|Selaginella_moellendor/1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLFEDTNLCAIHAKR  117
307102228|Chlorella_variabilis/1-136  ...............MARTKQTARK..STGGKAPRKQLATKA.ARKSA..P.A.TGGVKKPH.RYRPGTVALREIRKYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAVLALQEAAEAYLVGLFEDTNLCAIHAKR  117
consensus                                 ********RK  STGGKAPRKQLATKA ARKSA  P A TGGVKKPH RYRPGTVALREIR*YQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSSAV*ALQEA*EAYLVGLFEDTNLCAIHAKR

logo                                   4 3 2 1                                                  4 3 2 1
83655607|Valvognathia_pogonostom/1-109  ..................................  109
90184348|Boophis_tephraeomystax/1-109  ..................................  109
90184350|Boophis_albilabris/1-109  ..................................  109
90184602|Staurois_tuberilinguis/1-109  ..................................  109
83655605|Tenuignathia_rikerae/1-104  ..................................  104
255078048|Micromonas_sp./1-136  VTIMPKDIQLARRIRGERA...............  136
303279857|Micromonas_pusilla/1-136  VTIMPKDIQLARRIRGERA...............  136
145347216|Ostreococcus_lucimarin/1-136  VTIMPKDVQLARRIRGERA...............  136
168001493|Physcomitrella_patens/1-136  VTIMPKDIQLARRIRGERA...............  136
307103418|Chlorella_variabilis/1-136  VTIMPKDIQLARRIRGERA...............  136
302757896|Selaginella_moellendor/1-136  VTIMPKDIQLARRIRGERA...............  136
307102228|Chlorella_variabilis/1-136  VTIMPKDIQLARRIRGERA...............  136
consensus                                 *******************
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X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved