

# CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

File: /media/morpheus/disk1/fst/pep\_msa/TRAFFIC Data Tue Feb 14:47:39 2022

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**::: * . . ** *** : *: : . :
Pavo_muticus      -----MSLLHSDSCCGARDMDGGCCAAMASA-CSGGAKED--SVSIGSGTG 43
Pavo_cristatus    -----MSLLHSDSCCGARDMDGGCCAAMASA-CSGGAKED--SVSIGSGTG 43
Gallus_gallus     -----MSLLHSDSCCGARDMDGGCCAAMASA-CSGGAKED--SVSIGSGTG 43
Chelonia_mydas    -----MSLIQSDNSYRARDLETGCCAAMASA-CSAGAKEDSIGVSVSGTG 45
Anolis_carolinensis -----MSLLHSNTSFEINSQESGCCAAMASA-CSAAAKEESINASVSNETG 45
Mus_musculus      -----MSLLNCENSCGSSQSSSDCCAAMAA--CSAAVKDDSVSGS--ASTG 43
Rattus_norvegicus -----MSLLNCENSCASSQSSSDCCAAMANS--CSAAMKDDSVSGC--VSTG 43
Homo_sapiens      -----MSLLNCENSCGSSQSESDDCCVAMASS-CSAVTKDDSVGGT--ASTG 43
Pan_troglodytes   -----MSLLNCENSCGSSQSESDDCCVAMASS-CSAATKDDSVGGT--ASTG 43
Macaca_mulatta    -----MSLLNCENSCGSSQSESDDCCVAMASS-CSAATKDDSVGGT--ASTG 43
Callithrix_jacchus MDKFFSRASDNQVTMSLLNCENSCGSSQSESDDCCGAMASS-CSAATKDDSVGGT--ASTG 57
Equus_caballus    -----MSLLNCENSCGSSQTESDCCAAMASS-CSAAAKDDSVSGT--ASTG 43
Canis_lupus_familiaris -----MSLLNCENSCGSSQSESDDCCPAMASS-CSAAVKDDSVSGT--TSTG 43
Bos_taurus        -----MSLLHCENSCGSSQSESDDCCAAMAA--CGTAAKDDSVSGT--ASTV 44
Heterocephalus_glaber -----MSLLNCENSCGSSQSESDDCCAAMASS-CSTAARKDDSVSGVPTSTG 45
Rhinatrema_bivittatum -----MSVLHSDNSCGHSDFFENACCAAMASA-FLGGAKEDSVSGSSSVGAG 45
Xenopus_tropicalis -----MSILNCRPSFDGVDITDACCAGAMASA-CCVNTKEDGESPSAGSPSG 45
1.....10.....20.....30.....40.....50.....60

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. . *: *****.*****.*****.*****
Pavo_muticus      -NLPSSFTEETQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKGCIVKSIRDAG 102
Pavo_cristatus    -NPPSSFTEETQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKGCIVKSIRDAG 102
Gallus_gallus     -NPPSSFTEETQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKGCIVKSIRDAG 102
Chelonia_mydas    -NLPNSFTEETQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKGCIVKSIRDAG 104
Anolis_carolinensis GTLSNSFMEETQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIVKSIRDAG 105
Mus_musculus      -NLSSSFMEETQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIISIRDAG 102
Rattus_norvegicus -NLSSSFMEETQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIISIRDAG 102
Homo_sapiens      -NLSSSFMEETQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIISIRDAG 102
Pan_troglodytes   -NLSSSFMEETQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIISIRDAG 102
Macaca_mulatta    -NLSSSFMEETQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIISIRDAG 102
Callithrix_jacchus -NLSSSFMEETQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIISIRDAG 116
Equus_caballus    -NLSSSFMEETQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIISIRDAG 102
Canis_lupus_familiaris -NLSSSFMEETQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIISIRDAG 102
Bos_taurus        -TLSSSFMEETQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIISIRDAG 103
Heterocephalus_glaber -NLSSSFMEETQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIISIRDAG 104
Rhinatrema_bivittatum -TLPGSYVEETQGYDVEFDPPLENKYECPICLMALREAVQTPCGHRFCKGCIISIRDAG 104
Xenopus_tropicalis -TPQSLVLEDVQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACILKSIRDAG 104
.....70.....80.....90.....100.....110.....120

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****:*** *: .*****.*****.*****.*****
Pavo_muticus      HKCPVDNEILLENQLFPDNFAKREILSLTVKCPNKGCCMKMELRHLEEHQLHCDFTTVEC 162
Pavo_cristatus    HKCPVDNEILLENQLFPDNFAKREILSLTVKCPNKGCCMKMELRHLEEHQLHCDFTTVEC 162
Gallus_gallus     HKCPVDNEILLENQLFPDNFAKREILSLTVKCPNKGCCMKMELRHLEEHQLHCDFTTVEC 162
Chelonia_mydas    HKCPVDNEILLENQLFPDNFAKREILSLKVRCPNKGCLLMKELRHLEEHQLHCDFTTVEC 164
Anolis_carolinensis HKCPIDNEILLETQLFPDNFAKREILSLTVKCPNKGCDQKMLRHLEDHQHCFASEKC 165
Mus_musculus      HKCPVDNEILLENQLFPDNFAKREILSLTVKCPNKGCLQKMLRHLEDHQHCFALVNC 162
Rattus_norvegicus HKCPVDNEILLENQLFPDNFAKREILSLTVKCPNKGCVQKMLRHLEDHQHCFALVIC 162
Homo_sapiens      HKCPVDNEILLENQLFPDNFAKREILSLMVKCPNEGCLHKMELRHLEDHQHCFALMDC 162
Pan_troglodytes   HKCPVDNEILLENQLFPDNFAKREILSLMVKCPNEGCLHKMELRHLEDHQHCFALMDC 162
Macaca_mulatta    HKCPVDNEILLENQLFPDNFAKREILSLMVKCPNEGCLHKMELRHLEDHQHCFALVDC 162
Callithrix_jacchus HKCPVDNEILLENQLFPDNFAKREILSLMVKCPNEGCLHKMELRHLEDHQHCFALMDC 176
Equus_caballus    HKCPVDNEILLENQLFPDNFAKREILSLMVKCPNEGCLHKMELRHLEDHQHCFALMNC 162
Canis_lupus_familiaris HKCPVDNEILLENQLFPDNFAKREILSLMVKCPNEGCLHKMELRHLEDHQHCFALMNC 162
Bos_taurus        HKCPVDNEILLENQLFPDNFAKREILSLMVKCPNEGCLHKMELRHLEDHQHCFALMNC 163
Heterocephalus_glaber HKCPVDNEILLENQLFPDNFAKREILSLMVKCPNEGCLHKMELRHLEDHQHCFALVNC 164
Rhinatrema_bivittatum HKCPVDNEILLENQLFPDNFAKREILSLKVKCPSPGCHHKMELRHLEDHQHCFACVEC 164
Xenopus_tropicalis HKCPVDNESLMEENQLFPDNFAKREILSLRVKCPSPGCHHKMELRHLEDHQHCFACVEC 164
.....130.....140.....150.....160.....170.....180

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# CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

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*** * : :: * :*****: * *** :. *: * : * * : **** * *
Pavo_muticus      PQCQGAFOKNHLKEHMTQECPRROVCCPNCATSMAYEDKELHDQTCPLANVFCEYCNMTL 222
Pavo_cristatus    PQCQGAFOKNHLKEHMTQECPRROVCCPNCATSMAYEDKELHDQTCPLANVFCEYCNMTL 222
Gallus_gallus     PQCQGAFOKNHLKEHMTQECPRROVCCPNCATSMAYEDKELHDQTCPLANVFCEYCNMTL 222
Chelonia_mydas    PQCQGSFOKNQLQNHMTLECPRRQVCCPNCATSMAYEDKELHDQNCPLANVFCEYCNMTL 224
Anolis_carolinensis PQCQGIFQKNRLQEHKLECPRRQVSCPNCALLMPYEDKEVHDGVCLLANVCEYCNMTL 225
Mus_musculus      PQCQRPFOKQCVNTHIIEDCPRRQVSCVNCVSMAYEEKEIHDQSCPLANIICEYCGTIL 222
Rattus_norvegicus PQCQRFQKQKINKHIIEDCPRRQVSCVNCVMPYEEKEIHDQSCPLANIICEYCGTIL 222
Homo_sapiens      PQCQRPFOKQFHINIHLKDCPRROVSCDNCAASMAFEDKEIHDQNCPLANVCEYCNMTL 222
Pan_troglodytes   PQCQRPFOKQFHINIHLKDCPRROVSCDNCAASMAFEDKEIHDQNCPLANVCEYCNMTL 222
Macaca_mulatta    PQCQRPFOKQFHINIHLKDCPRROVSCDNCAALVAFEDKEIHDQNCPLANVCEYCNMTL 222
Callithrix_jacchus PQCQRPFOKQFQINIHLKDCPRROVSCVNCVSMFEDKEIHDQNCPLANVCEYCNMTL 236
Equus_caballus    PQCQHPFOKQQLNIHMLKECPRRQVSCVNCVSMFEDKEIHDQNCPLANVCEYCNMTL 222
Canis_lupus_familiaris LQCQRTFQKQKQNIHILKECPRRQVSCMNCAALMAFEDKEIHDQNCPLANVCEYCNMTL 222
Bos_taurus        PQCQRPFOKQCHLNIHLKECPRRQVPCENCAVSMFEDKEIHDQNCPLANVCEYCNMTL 223
Heterocephalus_glaber SQCQRPFOKQQLNIHILTDPCPRROVSCVNCVSMFEEKEIHDQNCPLANVCEYCHTML 224
Rhinatrema_bivittatum PQCQAPFQKQSLLEDHMRLECPRRQVSCENCAVSMFEDKEIHDQTCPLAYVMCEYCHTML 224
Xenopus_tropicalis SQCQSSFQKQSLQKHKEFECPRROIFCENCAVMALEDKLNHDQTCPLAYVTCEYCHTML 224
.....190.....200.....210.....220.....230.....240

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**::* * . * . * . * : * * * * * . * * * * * * * * * * : : : :
Pavo_muticus      IRQQMPNHYDNDCTAPVPCFYNAFGCPEKMQRNELARHMQEFTQVHMRMMAQSIQNISV 282
Pavo_cristatus    IRQQMPNHYDNDCTAPVPCFYNAFGCPEKMQRNELARHMQEFTQVHMRMMAQSIQNISV 282
Gallus_gallus     IRQQMPNHYDNDCTAPVPCFYSAFGCPEKMQRNELARHMQEFTQVHMRMMAQSIQNISV 282
Chelonia_mydas    IREQMPNHYDNDCTAPVPCFYSAFGCPEKMQRNELARHMQEFTQVHMRMMAQTLRSISV 284
Anolis_carolinensis IREQLPNHYDNDCTAPVPCFYSAFGCPEKMQRNELARHMQEFTQVHMRMMAQTLRNHVH 285
Mus_musculus      IREQMPNHYDLDCPTAPIPCTFSTFGCHEKMQRNHLARHLOENTQLHMRLLAQAVHNVNL 282
Rattus_norvegicus IREQMPNHYDLDCPTAPIPCTFSTFGCHEKMQRNHLARHLOENTQLHMRLLAQAVHNVNL 282
Homo_sapiens      IREQMPNHYDLDCPTAPIPCTFSTFGCHEKMQRNHLARHLOENTQSHMRMLAQAVHSLSV 282
Pan_troglodytes   IREQMPNHYDLDCPTAPIPCTFSTFGCHEKMQRNHLARHLOENTQSHMRMLAQAVHSLSV 282
Macaca_mulatta    IREQMPNHYDLDCPTAPIPCTFSTFGCHEKMQRNHLARHLOENTQSHMRMLAQAVHSLSV 282
Callithrix_jacchus IREQMPNHYDLDCPTAPIPCTFSTFGCHEKMQRNHLARHLOENTQSHMRMLAQAVHSLSV 296
Equus_caballus    IREQMPNHYDLDCPTAPIPCTFSTFGCHEKMQRNHLARHLOENTQSHMRMLAQAVQSLSV 282
Canis_lupus_familiaris IREQMPNHYDLDCPTAPIPCTFSTFGCHVKMQRNHLARHLOENTQSHMRMLAQAVQSLSV 282
Bos_taurus        IREQMPNHYDLDCPTAPIPCTFSTFGCHEKMQRNHLARHLOENTQSHMRMMAQAVQTLSSL 283
Heterocephalus_glaber IREQMPNHYDLDCPTAPIPCTFSTFGCHEKMQRNHLARHLOENTQSHMRMLAQAVHSLNL 284
Rhinatrema_bivittatum IREQMPNHYDMDCPTAPIPCTFSTFGCHEKMQRNHLARHLOENTQSHMRMMAQTLRSVST 284
Xenopus_tropicalis IREQMPNHYDMDCPTAPIPCTFSTFGCHEKMQRNHLARHLOENTQSHMRMMAQTLRSVST 284
.....250.....260.....270.....280.....290.....300

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* * . * . * . * . * .
Pavo_muticus      TATNTVPFINGLPF-----EPALFSHVSRAPYNCNPEVENFKETIQOLEGRLVR 331
Pavo_cristatus    TATNTVPFINGLPF-----EPALFSHVSRAPYNCNPEVENFKETIQOLEGRLVR 331
Gallus_gallus     TATNPVPFINGLPF-----EPALFSHVSRAPYNCNPEVENFKETIQOLEGRLVR 331
Chelonia_mydas    TTT-PMSYLSGLSF-----EPSLFSHVPPATYDCNPEVENFKETIQOLEGRLVR 332
Anolis_carolinensis TNPASGNFHGGLSF-----DPSLFSQAMPSPCECSPEVRNFKETIQOLEGRLVR 334
Mus_musculus      ALRPCDAAS-----PSRGCRRPEDPNYEETIKOLESRLVR 316
Rattus_norvegicus SLRPCDASS-----PSRGCRRPEDPNYEETIKOLESRLVR 316
Homo_sapiens      IPDSG-----YISEVRNFOETIHOLEGRLVR 308
Pan_troglodytes   IPDSG-----YISEVRNFOETIHOLEGRLVR 308
Macaca_mulatta    IPDSG-----YVSEVRNFOETIHOLEGRLVR 308
Callithrix_jacchus TLTPAP-----PTPEVWNFOETIHOLEGRLVR 323
Equus_caballus    ALAPVPQRDM-----LPYDSAPLSRVSSGCYPEVRNFOETIQOLEGRLVR 327
Canis_lupus_familiaris ALAPVPQRDV-----PPYDS-SVSRVSSSTCHPEVQNFOETIQOLEGRLVR 327
Bos_taurus        AVAPVPQCTM-----PLYDSVPPIRPSGRHSFVHNFOETIQOLEGRLVR 328
Heterocephalus_glaber ALTPVPPRD-----LPYDAASLPVSSGCHPEVQNFOETIQOLEGRLVR 329
Rhinatrema_bivittatum TTASYSNTPTSMIDPL-RFEPGPSVMVPSHSASPLPRDCTPEVQNFOETIHOLESRLVK 343
Xenopus_tropicalis SVTPTSHMPDISFCDPSPQFEPAPPSVATVHSTHTPSQNDCTQETRNLRITIEOLEGRLVR 344
.....310.....320.....330.....340.....350.....360

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## CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

**File: /media/morpheus/disk1/fst/pep\_msa/TRAIDepos** **Date: Tue Feb 1 14:47:39 2022**

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QDHQIRELIAKMETQNTHMAELKRTIRNLEGKITEMEAQQCNGIYIWKIENFSGLQKAQE	391
QDHQIRELIAKMETQNTHMAELKRTIRNLEGKITEMEAQQCNGIYIWKIENFSGLQKAQE	391
QDHQIRELIAKMETQNTHMAELKRTIRDLEGKITEMEAQQCNGIYIWKIENFSGLQKAQE	391
QDHQIRELIAKMETQS AHVGD LKRTIINLEEKITEMEAQQCNGIYIWKIENFSTYLRAQE	392
QDHQIRELIAKMETQNSQVGDLKGTIKNLEEKITELEAQQCNIGFIWKIEHFSVYLKALE	394
QDHQIRELTAKMETQSMYVGELKRTIRTLEDKVAE MEAQQCNGIYIWKIGNFGMHLKSQE	376
QDHQIRELTAKMETQSMHVSELKRTIRSLEDKVAE MEAQQCNGIYIWKIGNFGMHLKSQE	376
QDHQIRELTAKMETQSMYVSELKRTIRTLEDKVAE IEAQQCNGIYIWKIGNFGMHLKCQE	368
QDHQIRELTAKMETQSMYVSELKRTIRTLEDKVAE IEAQQCNGIYIWKIGNFGMHLKCQE	368
QDHQIRELTAKMETQSTYVSELKRTIRTLEDKVAE IEAQQCNGIYIWKIGNFGMHLKCQE	368
QDHQIRELTAKMETQGMVYNELRRTIRTLEDKVAE IEAQQCNGIYIWKIGNFGMHLKCQE	383
QDHQIRELTAKMETQSIYVSELKRTIRTLEDKVAE IEAQQCNGIYIWKIGNFGMHLKSQE	387
QDHQIRELTAKMETQSMHVSELKRNI RTLEDKVAE IEAQQCNGIYIWKIGNFGMHLKSQE	387
QDHQIRELTAKMETQSMYVNELKRTIRTLEDKVAE IEAQQCNGIYIWKIGNFGMHLKSQE	388
QDHQIRELTAKMETQCMYVNELKGTIRTLEDKVAE IEAQQCNGIYIWKIGNFGMHLKSQE	389
QDHQIRELIAKMETQSVNVTDLKRSIRALEERVAEVEAQQCNGIYIWKIENFGMHLKAE	403
QDHQIRELIAKMETQCTYVNELKHTIRSLDNRLGEMESQCSGIFIWRINNFSNLKNQE	404

.....370.....380.....390.....400.....410.....420

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**::***:** *****:*****:***:***. *****:***** *****. *****:**
EERPVMHSPGFYTGKPGYKLCRLRLHIQLPNAQRCANFISLFVHTMGEYDSHLPWPFG 451
EERPVMHSPGFYTGKPGYKLCRLRLHIQLPNAQRCANFISLFVHTMGEYDSHLPWPFG 451
EERPVMHSPGFYTGKPGYKLCRLRLHIQLPSAQRCANFISLFVHTMGEYDSHLPWPFG 451
EERPVIHSPGFGYTGKPGYKLCRLRLHIQLPNSQRCANFISLFVHTMGEYDSHLPWPFG 452
EERPVIHSPGFYTGKPGYKLCMRRLHIQLPNVQRCANYISLFVHIMGEYDNYLWPFG 454
EERPVIHSPGFYTGKPGYKLCMRRLHLQLPTAQRCANYISLFVHTMGEYDSHLPWPFG 436
EERPVIHSPGFYTGKPGYKLCMRRLHLQLPTAQRCANYISLFVHTMGEYDSHLPWPFG 436
EEKPVIHSPGFYTGKPGYKLCMRRLHLQLPTAQRCANYISLFVHTMGEYDSHLPWPFG 428
EEKPVIHSPGFYTGKPGYKLCMRRLHLQLPTAQRCANYISLFVHTMGEYDSHLPWPFG 428
EEKPVIHSPGFYTGKPGYKLCMRRLHLQLPTAQRCANYISLFVHTMGEYDSHLPWPFG 428
EEKPVIHSPGFYTGKPGYKLCMRRLHLQLPTAQRCANYISLFVHTMGEYDSHLPWPFG 443
EEKPVIHSPGFYTGKPGYKLCMRRLHLQLPTAQRCANYISLFVHTMGEYDSHLPWPFG 447
EEKPVIHSPGFYTGKPGYKLCMRRLHLQLPSAQRCANYISLFVHTMGEYDSHLPWPFG 448
EEKPVIHSPGFYTGKPGYKLCMRRLHLQLPTAQRCANYISLFVHTMGEYDSHLPWPFG 449
EERPVIHSPGFYTGKPGYKLCRLRLHLQLPNAQRCANFISLFVHTMGEYDSYLPWPFG 463
EERPVIHSPGFYTGKPGYKLCRLRLHLQLPSAQRCANYISLFVHTMGEYDSLLPWPFG 464
.....430.....440.....450.....460.....470.....480

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*****:*****. *::*:::*:***** ***** *:::*:::
TIRLSILDQSEGPERONHEEVMEAKPELLAFORPTIHRNPKGFGYVTFMHLOTLKQRTFV 511
TIRLSILDQSEGPERONHEEVMEAKPELLAFORPTIHRNPKGFGYVTFMHLOTLKQRTFV 511
TIRLSILDQSEGPERONHEEVMEAKPELLAFORPTIHRNPKGFGYVTFMHLOTLKQRTFV 511
TIRLSILDQSEGHVRONHEEVMEAKPELLAFORPAIQRNPKGFGYVTFMHLOALKQRTYV 512
TIRLSVLDQSESGSPRONHEEVMDTKPELLAFORPKTIRNPKGFGYVTFMQLTLRQRTYI 514
TIRLTILDQSEALIRONHEEVMDAKPELLAFORPTIPRNPKGFGYVTFMHLEALRQGTFI 496
TIRLTILDQSEAVIRONHEEVMDAKPELLAFORPTIPRNPKGFGYVTFMHLEALRQGTFI 496
TIRLTILDQSEAPVRONHEEIMDAKPELLAFORPTIPRNPKGFGYVTFMHLEALRQRTFI 488
TIRLTILDQSEAPVRONHEEIMDAKPELLAFORPTIPRNPKGFGYVTFMHLEALRQRTFI 488
TIRLTILDQSEAPVRONHEEIMDAKPDLLAFORPTIPRNPKGFGYVTFMHLEALRQRTFI 488
TIRLTILDQSEAPVRONHEEIMDAKPELLAFORPTIPRNPKGFGYVTFMHLEALRQRTFI 503
TIRLTILDQSEAPIRONHEEIMDAKPELLAFORPTIPRNPKGFGYVTFMHLEALRQRTFI 507
TIRLAILDQSEAPVRONHEEIMDAKPELLAFORPTIPRNPKGFGYVTFMHLEALRQRTFI 507
TIRLTILDQSEAAVRONHEEIMDAKPELLAFORPTIPRNPKGFGYVTFMHLEALRQRTFI 508
TIRLTILDQSEAPVRONHEEIMDAKPELLAFORPTIPRNPKGFGYVTFMHLEALRQRTFI 509
TIRLSILDQSEGVNRQSDHEEVMDTKPELLAFORPTVLRNPKGFGYVTFMPLQTLKQRTYI 523
TIRLSILDQSEGVAMDQDEEVMDTKPELLAFORPTVARNPKGFGYVTFMHLOALKQRTYV 524
*****490.....500.....510.....520.....530.....540

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## CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

**File: /media/morpheus/disk1/fst/pep\_msa/TRAFFIC/**

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Pavo_muticus	KDDTLVRCEVLTRLDLNSLRREGFQARSTDGAA-	545
Pavo_cristatus	KDDTLVRCEVLTRLDLNSLRREGFQARSTDGAA-	545
Gallus_gallus	KDDTLVRCEVLTRLDLNSLRREGFQARSTDGAA-	545
Chelonia_mydas	KDDTLVRCEVTRLRLDLNSVRREGFQPRSTDGAV-	546
Anolis_carolinensis	KEDTVLVRCEVLTRLDMVSPRREGFQPRSTDGTV-	548
Mus_musculus	KDDTLVRCEVSTRFDMGGLRKEGFQPRSTDAGV-	530
Rattus_norvegicus	KDDTLVRCEVSTRFDMGGLRKEGFQPRSTDAGV-	530
Homo_sapiens	KDDTLVRCEVSTRFDMGSLRREGFQPRSTDAGV-	522
Pan_troglodytes	KDDTLVRCEVSTRFDMGSLRREGFQPRSTDAGV-	522
Macaca_mulatta	KDDTLVRCEVSTRFDMGSLRREGFQPRSTDGSGV-	522
Callithrix_jacchus	KDDTLVRCEVSTRFDMGSLRREGFQPRSTDGTV-	537
Equus_caballus	KDDTLVRCEVSTRFDMGSLRREGFQPRSTDGTV-	541
Canis_lupus_familiaris	KDDTLVRCEVSTRFDMGSPRREGFQPRSTDSGI-	541
Bos_taurus	KDDTLVRCEVSTRFDMGSLRREGFQPRSTDSGI-	542
Heterocephalus_glaber	KDDTLVRCEVSTRFDMGGLRKEGFQPRSTDAGV-	543
Rhinatrema_bivittatum	KDNTLLIRCEVKTTRVDMNSLRGEGVQPRSTDSSGF	558
Xenopus_tropicalis	KNDTLVRCSVTTHLDLISPRREGFQPRSGDGAL-	558
	.....550.....560.....570.....	