

CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

File: /media/morpheus/disk1/fst/pep_msa/WDR44.fasta

Page 1 of 3

| | | * * * | |
|------------------------|---|-------|--|
| Pavo_muticus | -----MLRWLTGGREP | 12 | |
| Pavo_cristatus | -----MLRWLTGGREP | 12 | |
| Gallus_gallus | -----MLRWLTGGREP | 12 | |
| Anas_platyrhynchos | -----MLRWLTGGREP | 12 | |
| Chelonia_mydas | -----MLRWLMGGREP | 12 | |
| Mus_musculus | -----MLRWLTGGREP | 12 | |
| Rattus_norvegicus | -----MLRWLTGGREP | 12 | |
| Homo_sapiens | -----MLRWLTGGREP | 12 | |
| Pan_troglodytes | -----MLRWLTGGREP | 12 | |
| Callithrix_jacchus | -----MLRWLTGGREP | 12 | |
| Macaca_mulatta | MKANCSSPGETGE-----TGSPHPPGPQSPHLQHRLDLGSGLGRSS | 41 | |
| Canis_lupus_familiaris | MKADSSSPREETSEGCPOKLGEKGVKKIFFVLKTGSPHPPGPKFLLPGHLELGSLRRSI | 60 | |
| Bos_taurus | -----MLRWLTGGREP | 12 | |
| Equus_caballus | -----MLRWLTGGREP | 12 | |
| Rhinatrema_bivittatum | -----MLRWLLG-GREP | 11 | |
| Xenopus_tropicalis | -----MLRWLLG-SREA | 11 | |
| | 1.....10.....20.....30.....40.....50.....60 | | |

| | | *::: | ::* | :***** | **..* | ****: | :.:* | ***** | *** | |
|------------------------|---|----------------------|--------------------------|-------------|-------|-------|------|-------|-----|--|
| Pavo_muticus | ----- | OGLAEKSSVQTIGEEQVN | NPYTELLVLKGHQDIVRFLVQID | DYRFASAGDDG | | 64 | | | | |
| Pavo_cristatus | ----- | OGLAEKSSVQTIGEEQVN | NPYTELLVLKGHQDIVRFLVQID | DYRFASAGDDG | | 64 | | | | |
| Gallus_gallus | ----- | OGLAEKSSVQTIGEEQVN | NPYTELLVLKGHQDIVRFLVQID | DYRFASAGDDG | | 64 | | | | |
| Anas_platyrhynchos | ----- | OGLAEKSSVQTIGEEQION | NPYTELLVLKGHQDIVRFLVQID | DCRFASAGDDG | | 64 | | | | |
| Chelonia_mydas | ----- | OGLSEKSSVSILGEEQION | NPYTELLVLKGHHDIVRFLVQLD | DCRFASAGDDG | | 64 | | | | |
| Mus_musculus | ----- | OGLAEKAALQTIGEDQGON | NPYTELLVLEAHRDIVRFLVRLLD | DFRASAGDDG | | 64 | | | | |
| Rattus_norvegicus | ----- | OGLAEKAALQTIGEDQGON | NPYTELLVLKAHRDIVRFLVQLD | GYRFASAGDDG | | 64 | | | | |
| Homo_sapiens | ----- | OGLAEKSPLQTIGEEQTQN | PYTELLVLKAHHDIVRFLVQLDD | YRFASAGDDG | | 64 | | | | |
| Pan_troglodytes | ----- | OGLAEKSPLQTIGEEQTQN | PYTELLVLKAHHDIVRFLVQLDD | YRFASAGDDG | | 64 | | | | |
| Callithrix_jacchus | ----- | OGLAEKSPLQTIGEEQTQN | PYTELLVLKAHHDIVRFLVQLDD | YRFASAGDDG | | 64 | | | | |
| Macaca_mulatta | SWTCCSST | SQIMEKSPLQTIGEEQTQN | PYTELLVLKAHHDIVRFLVQLDD | YRFASAGDDG | | 101 | | | | |
| Canis_lupus_familiaris | R---WTCCP | CIPOKSPLQTIGEEQTQN | PYTELLVLKAHHDIVRFLVOLDE | YRFASAGDDG | | 117 | | | | |
| Bos_taurus | ----- | OGLAEKSPLQTIGEEQTQN | PYTELLVLKAHHDIVRYLVQLDD | SRFASAGDDG | | 64 | | | | |
| Equus_caballus | ----- | OGLAEKSPLQTIGEEQTQN | PYTELLVLRARHHDIVRFLVQLDD | CRFASAGDDG | | 64 | | | | |
| Rhinatrema_bivittatum | ----- | OGQOEKSPVLITIGEEQTHN | PYTELQVLKAHRDIVRFLVQVDD | DCRFASAGDDG | | 63 | | | | |
| Xenopus_tropicalis | ----- | HNGVEKSAVVDIGEEQTQN | PYTELSVLQHNDIVRFLQLIDE | SRFASACDDG | | 63 | | | | |
| |70.....80.....90.....100.....110.....120 | | | | | | | | | |

| | : :*.***: * *: ***::***: . :****:*.:** ** : : IIFLWNAQTGEKLFELHGHTHKITAIAPFFSSDASEENSHLILTASADRAVIVWDCCTTGR IIFLWNAQTGEKLFELHGHTHKITAIAPFFSSDASEENSHLILTASADRAVIVWDCCTTGR IIFLWNAQTGEKLFELHGHTHKITAIAPFFSSDASEENSHLILTASADRAVIVWDCCTTGR IIFLWNAQTGEKLFELHGHTQKITAIAPFFSSDASEEKNLILTASADKTVIVWDCCTTGR IIFLWNAQTGEKLFELHGHTHKITAIAPFFSSGAYEEKNLHILTASADRTVIVWDCNSGR IIVVWNAQTGEKLLLELRGHTQKITAVIAFPPLDSCASSQLLLTASADRTVGWVDCDTGR IIVVWNAQTGEKLLLELRGHTQKITAVITFLPLDSCASSQLLLTASADRTVGWVDCDTGR IIVVWNAQTGEKLLLELNHGHTQKITAIITFPFSLSCEEKNQLILTASADRTVIVWVDGDTTR IIVVWNAQTGEKLLLELNHGHTQKITAIITFPFSLSCEEKNQLILTASADRTVIVWVDGDTTR IIFVWNAQTGEKLLLELNHGHTQKITAIITFPFSLSCEEKRQLILTASADRTVIVWSDTGR IIVVWNAQTGEKLLLELNHGHTQKITAIITFPFSLSCEEKNQLILTASADRTVIVWSDTGR IIVVWNAQTGEKLLLELNHGHTQKITAIITFPFSLSCEEKNQLILTASADRTVILWDCDTGR TVVWNAQTGEKLLLELNHGHTQKITAIITLPCLETCEEKNQLILTASADRTVIEWDCDTGR IIVVWNAQTGEKLLLELSGHTQKITAIITFPFPLEACEEKNQLILTASADKTVIVWDCDTGR IVYLWDVQTGERLFEFLGHTQKITAVITVFPFSDMPREPPLILTASSDKTVIIVWDCDSGR SVFIWDVQTDILCELRGHTQKITAIWAGASDILQKTDIILTASSDKTVIAWDCDSVQ130.....140.....150.....160.....170.....180 | |
|------------------------|---|-----|
| Pavo_muticus | IIFLWNAQTGEKLFELHGHTHKITAIAPFFSSDASEENSHLILTASADRAVIVWDCCTTGR | 124 |
| Pavo_cristatus | IIFLWNAQTGEKLFELHGHTHKITAIAPFFSSDASEENSHLILTASADRAVIVWDCCTTGR | 124 |
| Gallus_gallus | IIFLWNAQTGEKLFELHGHTHKITAIAPFFSSDASEENSHLILTASADRAVIVWDCCTTGR | 124 |
| Anas_platyrhynchos | IIFLWNAQTGEKLFELHGHTQKITAIAPFFSSDASEEKNLILTASADKTVIVWDCCTTGR | 124 |
| Chelonia_mydas | IIFLWNAQTGEKLFELHGHTHKITAIAPFFSSGAYEEKNLHILTASADRTVIVWDCNSGR | 124 |
| Mus_musculus | IIVVWNAQTGEKLLLELRGHTQKITAVIAFPPLDSCASSQLLLTASADRTVGWVDCDTGR | 124 |
| Rattus_norvegicus | IIVVWNAQTGEKLLLELRGHTQKITAVITFLPLDSCASSQLLLTASADRTVGWVDCDTGR | 124 |
| Homo_sapiens | IIVVWNAQTGEKLLLELNHGHTQKITAIITFPFSLSCEEKNQLILTASADRTVIVWVDGDTTR | 124 |
| Pan_troglodytes | IIVVWNAQTGEKLLLELNHGHTQKITAIITFPFSLSCEEKNQLILTASADRTVIVWVDGDTTR | 124 |
| Callithrix_jacchus | IIFVWNAQTGEKLLLELNHGHTQKITAIITFPFSLSCEEKRQLILTASADRTVIVWSDTGR | 124 |
| Macaca_mulatta | IIVVWNAQTGEKLLLELNHGHTQKITAIITFPFSLSCEEKNQLILTASADRTVIVWSDTGR | 161 |
| Canis_lupus_familiaris | IIVVWNAQTGEKLLLELNHGHTQKITAIITFPFSLSCEEKNQLILTASSDKTVILWDCDTGR | 177 |
| Bos_taurus | TVVWNAQTGEKLLLELNHGHTQKITAIITLPCLETCEEKNQLILTASADRTVIEWDCDTGR | 124 |
| Equus_caballus | IIVVWNAQTGEKLLLELSGHTQKITAIITFPFPLEACEEKNQLILTASADKTVIVWDCDTGR | 124 |
| Rhinatrema_bivittatum | IVYLWDVQTGERLFEFLGHTQKITAVITVFPFSDMPREPPLILTASSDKTVIIVWDCDSGR | 123 |
| Xenopus_tropicalis | SVFIWDVQTDILCELRGHTQKITAIWAGASDILQKTDIILTASSDKTVIAWDCDSVQ | 123 |

CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

File: /media/morpheus/disk1/fst/pep_msa/WD4414141.fst Steps Tue Feb 1 14:54:20 2022

Page 2 of 3

```

*::: :*:**** *::* **::*****:*:*.:::*.::: *:::*.:::
QVHKVSCFHSTVKCLTVLQRLDVWLSGGSDLCVWNRKLDLLCKTSHLTDAGISALVELPK 184
QVHKVSCFHSTVKCLTVLQRLDVWLSGGSDLCVWNRKLDLLCKTSHLTDAGISALVELPK 184
QVQKVSCFHSTVKCLTVLQRLDVWLSGGSDLCVWNRKLDLLCKTSHLTDAGISALVELPK 184
QVQKVSCFHSTVKCLTVLQRLDVWLSGGSDLCVWNRKLDLLCKTSHLTDAGISALVELPK 184
QVQKVSCFHSTVKCLTVLQRLDVWLSGGSDLCVWNRKLDLLCKTSHLTDAAISALVELPK 184
QIQRVTCFQSTVKCLTVLQRLDIWLSGGSDLCVWNRKLDLLCKTSHLSDTGISALVEIPG 184
QIQRVTCFQSTVKCLAVLQRLDVWLSGGSDLGVWSRKLDLLCKTSHLSDTGISALVEIPG 184
QVQRISCFQSTVKCLTVLQRLDVWLSGGNDLCVWNRKLDLLCKTSHLSDTGISALVEIPK 184
QVQRISCFQSTVKCLTVLQRLDVWLSGGNDLCVWNRKLDLLCKTSHLSDTGISALVEIPK 184
QVQRISCFQSTVKCLTVLQRLDVWLSGGNDLCVWNRKLDLLCKTSHLSDTGISALVEIPK 184
QVQRISCFQSTVKCLTVLQRLDVWLSGGNDLCVWNRKLDLLCKTSHLSDTGISALVEIPK 221
QVRKVS CFQSTVKCLIVLQRLDVWLSGGNDLCVWNRKLDLLCKTSHLSDTGISALIEIPK 237
QVQKVS CFQSTVKCLAVIQRLDVWLSGGNDLCVWNRKLDLLCQTSHLSDTGITALIEIPK 184
QVRKVS CFHSTVKCLTIILQRLDVWLSGGSDLCVWNRRLDLLCKTSHLSDTGVSAIEIPK 184
QVRRISDFHSTVKCLIVLQRLDLWLSGGSELRIWNRELEVSETSHFTDAGISTLIELPK 183
QVQKADDFHSTVKTLVLVLSLDVWLSGGNELRVWNRREFNLLCETGYFVDGGISSLIELPK 183
.....190.....200.....210.....220.....230.....240

```

```

** :.* * :.:****: : *.: *.: * *.* * :.: * :*** **
NCVAAAVGKELIIFRLIASSDKSEGWNILEVKRLVDHQDNILSLVSVNDLTFATGSHVGE 244
NCVAAAVGKELIIFRLIASSDKSEGWNILEVKRLVDHQDNILSLVSVNDLTFATGSHVGE 244
NCVAAAVGKELIIFRLIASSDKSEGWNILEVKRLVDHQDNILSLVSVNDLTFATGSHVGE 244
NCVAAAVGKELIIFRLIASDKSEGWNILEVKRLVDHHDNILSLVSVNDLTFVTGSHVGE 244
NCVAAAVGKELIIFRLVSSTEGSEGDVLEVKRLVDHQDNILSLVSVNDLTFVTGSHVGE 244
NCVAAAVGRELIIFRLVPTPEELPEWDIIEVKRLLDHQDNILSLANINDTGFVTGSHVGE 244
NCVAAAVGRELIIFRLVPTPEELLEWDIIEVKRLLDHQDNILSLANINDTSFVTGSHVGE 244
NCVVAAVGKELIIFRLVAPTEGSLEWDILEVKRLLDHQDNILSLINVNDLSFVTGSHVGE 244
NCVVAAVGKELIIFRLVAPTEGSLEWDILEVKRLLDHQDNILSLINVNDLSFVTGSHIGE 244
NCVVAAGKELIIFRLVAPTEVSLWDILEVKRLLDHQDNILSLINVNDLSFVTGSHIGE 244
NCVVAAGKELIIFRLVAPTEGSLEWDILEIKHLLDHQDNILSLINVNDLSFVTGSHIGE 281
NCVVAAGKELIIFQLVAPTEESLEWDILEIKRLLDHQDNILSLNVNDLSFITGSHVGE 297
NCVVAAGKELIIFRLVAATEGSLGWDILEVKRLLDHQDNILSLNVNDVSFVSGSHVGE 244
NCVVAAGKELIIFKLVPATEGSLEWNILEVKRLLDHQDNILSLNVNDLSFVSGSHVGE 244
NCIAAAIGKDLIIFKILIPIDESDKWDIHEVKCLSAHQDNIRCLVNVTELTFVSGSHVGE 243
NCVAAAIGKDLIIFKLVSASRESQDWDVSEVRCLTAHQDIIRSLITVNDLTFVSGSHAGE 243
.....250.....260.....270.....280.....290.....300

```

```

:::**.*.*.*.:*****.::.:*:*:*:*:*:*:*:*
LIVWDALDWTQKASECNFWESPVPDARTEIKLSQSPNETSVQHLASDEEYVYAAGVKGI 304
LIVWDALDWTQKASECNFWESPVPDARTEIKLSQSPNETSVQHLASDEEYVYAAGVKGI 304
LIVWDALDWTQKASECNFWDSVVPDTRTEIKLSQSPNETSVQHLASDEENVYAAGVKGI 304
LIVWDALDWTQKASECNFWDSVHPDSQTEIKLSQSPNETSVQHLTCDEECVFAAGVKGI 304
LIVWDALDWISQVCERNFWDPSFHTVTQOEIKLSQKQHEVSIQHLTSAECVFAAGVKGI 304
LLIWDALDWTQACERTFWSPTAQLDAQOEIKLFQKQNDISIHHTCDEENIFAAGVRGL 304
LIIWDALDWTQACERTFWSPTQLDAQOEIKLCQKQNDIPVNHFACDEENVFAAGVRGL 304
LIIWDALDWTMQAYERNFWDPSQLDTQOEIKLCQKSNDISIHHTCDEENVFAAGVRGL 304
LIIWDALDWTMQAYERNFWDPSQLDTQOEIKLCQKSNDISIHHTCDEENVFAAGVRGL 304
LIIWDALDWTMQAYERNFWDPSQLDTQOEIKLCQKSNDISIHHTCDEENVFAAGVRGL 304
LIIWDALDWTMQAYERNFWDPSQLDTQOEIKLCQKSNDISIHHTCDEENVFAAGVRGL 341
MIIWDILDWTMQACECNFWDPSPQLDTQOEIKLCQKPNDISIHHTTWDEENVFAAGVRGL 357
LIIWDILGWTQACERNFWDPSQLDAQOEIKLCQKPNDSIHHTTWDEENVFAAGVRGL 304
LIVWDVSDWTQACERNFWT---QLDTQOEIKLCQKPNDISIHHTTWDEENVFAAGVRGL 301
LIVWDSLDTWTMLAYERSFWDTTSHHEALQOEIKL-QKQKEISVQHFTTDGECVFAAIGRI 302
LIVWDALDWTQKAVERNFEILSPQDAPQOEIKLLQTPPEISVQHLASDEESVFAAGVRGL 303
.....310.....320.....330.....340.....350.....360

```

CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

File: /media/morpheus/disk1/fst/pep_msa/WDR41.psf Tue Feb 14:54:20 2022

Page 3 of 3

```

***.* :***** *: **** : *: *** *.:*****:*.**.*.: *.*:
Pavo_muticus      YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWELREKQQLPTEPVPT 364
Pavo_cristatus    YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWELREKQQLPTEPVPT 364
Gallus_gallus     YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWEIREKQQLPTEPVPT 364
Anas_platyrhynchos YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWELREKQQLPTEPVPT 364
Chelonia_mydas    YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWELREKQQLPTEPVPT 364
Mus_musculus      YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWELREKQQLPTEPVPT 364
Rattus_norvegicus YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWELREKQQLPTEPVPT 364
Homo_sapiens      YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWELREKQQLPTEPVPT 364
Pan_troglodytes   YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWELREKQQLPTEPVPT 364
Callithrix_jacchus YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWELREKQQLPTEPVPT 364
Macaca_mulatta    YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWELREKQQLPTEPVPT 401
Canis_lupus_familiaris YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWELREKQQLPTEPVPT 417
Bos_taurus        YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWELREKQQLPTEPVPT 364
Equus_caballus    YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWELREKQQLPTEPVPT 361
Rhinatrema_bivittatum YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWELREKQQLPTEPVPT 362
Xenopus_tropicalis YVYNLQMKRVIACQRTAHDSSVLHIEMLPNRQLISCSSESGSVRIWELREKQQLPTEPVPT 362
.....370.....380.....390.....400.....410.....420

```

```

**.:*****.: **.: : ** ..: ***.:*****.:**.:**.* **.*****
Pavo_muticus      GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 423
Pavo_cristatus    GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 423
Gallus_gallus     GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 423
Anas_platyrhynchos GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 424
Chelonia_mydas    GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 424
Mus_musculus      GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 424
Rattus_norvegicus GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 424
Homo_sapiens      GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 424
Pan_troglodytes   GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 424
Callithrix_jacchus GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 424
Macaca_mulatta    GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 461
Canis_lupus_familiaris GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 477
Bos_taurus        GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 424
Equus_caballus    GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 421
Rhinatrema_bivittatum GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 422
Xenopus_tropicalis GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA 422
.....430.....440.....450.....460.....470.....480

```

```

***.:**.:**.:**.:**.:**.:**.:**.:**.:**.:**.:**.:**.:**.:**.:**.:
Pavo_muticus      DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 458
Pavo_cristatus    DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 458
Gallus_gallus     DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 458
Anas_platyrhynchos DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 459
Chelonia_mydas    DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 459
Mus_musculus      DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 460
Rattus_norvegicus DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 460
Homo_sapiens      DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 459
Pan_troglodytes   DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 459
Callithrix_jacchus DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 459
Macaca_mulatta    DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 496
Canis_lupus_familiaris DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 512
Bos_taurus        DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 459
Equus_caballus    DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 456
Rhinatrema_bivittatum DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 457
Xenopus_tropicalis DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF--- 460
.....490.....500.....510.....

```