CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

File: /media/morpheus/disk1/fst/pep_msa/WD**R4**tepsTue Feb 1 14:54:20 2022 Page 1 of 3

	* * *.	
Pavo muticus	MLRWLIGGGREP	12
Pavo cristatus	MLRWLIGGGREP	12
Gallus gallus	MLRWLIGGGREP	12
Anas platyrhynchos	mlrwligggrep	12
Chelonia_mydas	MLRWLMGGGREP	12
Mus_musculus	MLRWLIGGGREP	12
Rattus_norvegicus	MLRWLIGGGREP	12
Homo_sapiens	ML <mark>RWLIGGGREP</mark>	12
Pan_troglodytes	ML <mark>RWLI</mark> GGGREP	12
Callithrix_jacchus	MLRWLIGGGREP	12
Macaca_mulatta	MKANCSSPGETGETGSPHPPGPQSPLHQRHLDLGSGLGRSS	41
	MKADSSSPEETSEGCPQKLGEKGVKKIFFVLKTGSPHPPGPKFLLPQGHLELGSGLRRSI	60
Bos_taurus_	MLRWLIGGGREP	12
Equus_caballus	ML <mark>R</mark> WLI <mark>GGGREP</mark>	12
Rhinatrema_bivittatum	mlrwilig-grep	11
Xenopus_tropicalis		11
	1102030405060	
	**** ***** ***** ** ***** ** ***** ***	
Pavo muticus	QGLAEKSSVQTIGEEQVQNPYTELLVLKGHQDIVRFLVQIDDYRFASAGDDG	64
Pavo_muticus Pavo cristatus	QGLAEKSSVQTIGEEQVQNPYTELLVLKGHQDIVRFLVQIDDYRFASAGDDG	64
Gallus_gallus	QGLAEKSSVQTIGEEQVQNPYTELLVLKGHQDIVRFLVQIDDYRFASAGDDG	64
Anas_platyrhynchos	QGLAEKSSVQTIGEEQIQNPYTELLVLKGHQDIVRFLVQIDDCRFASAGDDG	64
Chelonia mydas	QGLSEKSSVQSLGEEQIQNPYTELLVLKGHHDIVRFLVQIDDCRFASAGDDG	64
Mus musculus	QGLAEKAALQTIGEDQGQNPYTELLVLEAHRDIVRFLVRLDDFRFASAGDDG	64
Rattus norvegicus	QGLAEKAALQTIGEDQGQNPYTELLVLKAHRDIVRFLVQLDGYRFASAGDDG	64
Homo sapiens	QGLAEKSPLQTIGEEQTQNPYTELLVLKAHHDIVRFLVQLDDYRFASAGDDG	64
Pan_troglodytes	QGLAEKSPLQTIGEEQTQNPYTELLVLKAHHDIVRFLVQLDDYRFASAGDDG	64
Callithrix jacchus	QGLAEKSPLQTIGEEQTQNPYTELLVLKAHHDIVRFLVELDDYRFASAGDDG	64
Macaca mulatta	SWTCCSSTSQIMEKSPLQTIGEEQTQNPYTELLVLKAHHDIVRFLVQLDDYRFASAGDDG	101
	RWTCCPCIPQKSPLQTIGEEQTQNPYTELLVLKAHHDIVRFLVQLDEYRFASAGDDG	117
Bos taurus	QGLAEKSPLQTIGEEQTQNPYTELLVLKAHHDIVRYLVQLDDSRFASAGDDG	64
Equus_caballus	QGLAEKSPLQTIGEEQTQNPYTELLVLRAHRDIVRFLVQLDDCRFASAGDDG	64
Rhinatrema_bivittatum	QGQQEKSPVLTIGEEQTHNPYTELQVLKAHRDIVRFLVQVDDCRFASAGDDG	63
Xenopus_tropicalis	HNGVEKSAVVDIGEEQTQNPYTELSVLQGHNDIVRFLLQIDESRFASACDDG	63
	$\dots \dots $	
	<u>: :*:.***: * *: ***::***: </u>	
Pavo_muticus	IIFLWNAQTGEKLFELHGHTHKITAIAPFFSSDASEENSHLILTASADRAVIVWDCTTGR	124
Pavo_cristatus	IIFLWNAQTGEKLFELHGHTHKITAIAPFFSSDASEENSHLILTASADRAVIVWDCTTGR	124
Gallus_gallus	IIFLWNAQTGEKLFELHGHTHKITAIAPFFSSDASEENSHLILTASADRAVIVWDCTTGR	124
Anas_platyrhynchos	IIFLWNAQTGEKLFELHGHTQKITAIAPFSSSDASEEKSNLILTASADKTVIVWDCTTGR	124
Chelonia_mydas	IVFLWNAQTGEKLFELHGHTHKITAIAAFPSSGAYEEKNHLILTASADRTVIEWDCNSGR	124
Mus_musculus	IIVVWNAQTGEKLLELRGHTQKITAVIAFPPLDSCEASSQLLLTASADRTVGVWDCDTGR	124
Rattus_norvegicus	IIVVWNAQTGEKLLELRGHTQKITAVITFLPLDSCEASSQLLLTASADRTVGVWDCDTGR	124
Homo_sapiens	IVVVWNAQTGEKLLELNGHTQKITAIITFPSLESCEEKNQLILTASADRTVIVWDGDTTR	124
Pan_troglodytes Callithrix_jacchus	IVVVWNAQTGEKLLELNGHTQKITAIITFPSLESCEEKNQLILTASADRTVIVWDGDTTR IIFVWNAQTGEKLLELNGHTQKITAIITFPSLESCEEKRQLILTASADRTVIVWDSDTGR	124 124
Macaca mulatta	IIFVWNAQIGEKLLELNGHTQKITAIITFPSLESCEEKRQLILTASADKTVIVWDSDIGK IVVVWNAQIGEKLLELNGHTQKITAIITFPSLESCEEKNQLILTASADKTVIVWDSDIGR	161
Canis_lupus_familiaris		177
Bos taurus	TVVVWNAQTGEKLLELNGHTQKITATITFPSTEACEEKNQLILTASSDKTVILWDCDTGR TVVVWNAQTGEKLLELNGHTQKITATITLPCLETCEEKNQLILTASADRTVIEWDCDTGR	124
Equus_caballus	IVVVWNAQIGERLLELINGHIQKITATITLPCLEICEENNOLILITASADKIVIEWDCDIGR IVVVWNAQIGEKLLELSGHIQKITATITFPPLEACEEKNQLILITASADKIVIVWDCDIGR	124
Rhinatrema bivittatum	IVVLWDVQTGERLFEFLGHTQQITAVTVFPSSDMPREPNPLILTASSDRTVIIWDCDSGR	123
Xenopus_tropicalis	SVFIWDVQTGDILCELRGHTQKITAIVAWGASDILQGKTDIILTASSDKTVIAWDCDSVQ	123
	130140150160170180	

CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

File: /media/morpheus/disk1/fst/pep_msa/WD**R4**tepsTue Feb $\,1\,14:54:20\,2022$ Page 2 of 3

	*::: : *:*** * ::* **:****.:* :*.::*::: * .:::*:*:*	
Pavo_muticus	QVHKVSCFHSTVKCLTVLQRLDVWLSGGSDLCVWNRKLDLLCKTSHLTDAGISALVELPK	184
Pavo_cristatus	QVHKVSCFHSTVKCLTVLQRLDVWLSGGSDLCVWNRKLDLLCKTSHLTDAGISALVELPK	184
Gallus_gallus	QVQKVSCFHSTVKCLTVLQRLDVWLSGGSDLCVWNRKLDLLCKTSHLTDAGISALVELPK	184
Anas platyrhynchos	QVQKVSCFHSTVKCLTVLQRLDVWLSGGSDLCVWNRKLDLLCKTSHLTDAGISTLVELPK	184
Chelonia mydas	OVOKVSCFHSTVKCLTVLORLDVWLSGGSDLCVWNRKLDLLCKTSHLTDAAISALVELPK	184
Mus_musculus	QIQRVTCFQSTVKCLTVLQRLDIWLSGGSDLGVWNRKLDLLCKTSHLSDTGISALVEIPG	184
Rattus norvegicus	QIQRVTCFQSTVKCLAVLQRLDVWLSGGSDLGVWSRKLDLLCKTSHLSDTGISALVEIPG	184
Homo_sapiens	QVQRISCFQSTVKCLTVLQRLDVWLSGGNDLCVWNRKLDLLCKTSHLSDTGISALVEIPK	184
Pan_troglodytes	QVQRISCFQSTVKCLTVLQRLDVWLSGGNDLCVWNRKLDLLCKTSHLSDTGISALVEIPK	184
Callithrix jacchus	QVQRISCFQSTVKCLTVLQRLDVWLSGGNDLCVWNRKLDLLCKTSYLSDTGISALVEIPK	184
Macaca mulatta	QVQRISCFQSTVKCLTVLQRLDVWLSGGNDLCVWNRKLDLLCKTSHLSDTGISALVEIPK	221
		237
Canis_lupus_familiaris		_
Bos_taurus	QV <mark>QKVSCFQSTVKC</mark> LAVIQRLDVWLS <mark>GG</mark> NDLCVWNRKLDLLCQTSHLSDTGITALIEIPK	184
Equus_caballus	QVRKVSCFHSTVKCLTILQRLDVWLSGGSDLCVWNRRLDLLCKTSHLSDTGVSALIEIPK	184
Rhinatrema_bivittatum	QVRRISDFHSTVKCLIVLQRLDLWLSGGSELRIWNRELELVSETSHFTDAGISTLIELPK	183
Xenopus_tropicalis	QVQKATDFHSTVKTLLVLQSLDVWLSGGNELRVWNREFNLLCETGYFVDGGISSLIELPK	183
	$\dots 190 \dots 200 \dots 210 \dots 220 \dots 230 \dots 240$	
	:. *::****: .:	
Pavo muticus	NCVAAAV <mark>GKE</mark> LIIFRLIASSDKSEGWNILEV <mark>KR</mark> LVDHODNILSLVSVNDLTFATGSHVGE	244
Pavo cristatus	NCVAAAVGKELIIFRLIASSDKSEGWNILEVKRLVDHQDNILSLVSVNDLTFATGSHVGE	244
Gallus gallus	NCVAAAVGKELIIFRLIASSOKSEGWNILEVKRLVDHOONILSLVSVNDLTFATGSHVGE	244
Anas_platyrhynchos	NCVAAAVGKELIIFRLIASSDKSEGWNILEVKRLVDHHDNILSLVSVNDLTFVTGSHVGE	244
Chelonia mydas	NCVAAAVGKELIIFRLVVSTEGSEGWDVLEVKRLVDHODNILSLVSVNDLTFVTGSHVGE	244
Mus musculus	NCVAAAVGRELIIFRLVTPTEELPEWDIIEVKRLLDHODNILSLANINDTGFVTGSHVGE	244
Rattus_norvegicus	NCVAAAVGRELIIFRLVTPTEELLEWDIIEVKRLLDHODNILSLANINDTSFVTGSHVGE	244
Homo_sapiens	NCVVAAVGKELIIFRLVAPTEGSLEWDILEVKRLLDHQDNILSLINVNDLSFVTGSHVGE	244
Pan_troglodytes	NCVVAAVGKELIIFRLVA <mark>PTEG</mark> SLEWDILEVKRLLDHQDNILSLINVNDLSFVTGSHIGE	244
Callithrix_jacchus	NCVVAAAGKELIIFRLVA <mark>PTEV</mark> SLEWDILEVKRLLDHQDNILSLINVNDLSFVTGSHIGE	244
Macaca_mulatta	NCVVAAVGKELIIFRLVAPTEGSLEWDILEIKHLLDHQDNILSLINVNDLSFVTGSHIGE	281
Canis_lupus_familiaris	NCVVAAVGKELIIFQLVAPTEESLEWDILEIKRLLDHQDNILSLVNVNDLSFITGSHVGE	297
Bos_taurus	NCVVAAVGKELIIFRLVAATEGSLGWDILEVKRLLDHQDNILSLVNVNDVSFVSGSHVGE	244
Equus_caballus	NCVVAAVGKELIIFKLVA <mark>PTEGSLE</mark> WNILEVKRLLDHQDNIL <mark>S</mark> LVNVNDLSFVSGSHVGE	244
Rhinatrema_bivittatum	NCIAAAIGKDLIIFKILIPTDESDKWDIHEVKCLSAHQDNIRCLVNVTELTFVSGSHVGE	243
<pre>Xenopus_tropicalis</pre>	NCVAAAIGKDLIIFKLSVASRESDQWDVSEVRCLTAHQDIIRSLITVNDLTFVSGSHAGE	243
	250260270280290300	
	:::** .* . * . * . : . : . : . : . : . :	
Pavo muticus	LIVWDALDWTKOASECNFWESPVOPDARTEIKLSOSPNETSVOHLASDEEYVYAAVGKGI	304
Pavo_cristatus	LIVWDALDWTKQASECNFWESPVQPDARTEIKLSQSPNETSVQHLASDEEYVYAAVGKGI	304
Gallus_gallus	LIVWDALDWTKQASECNFWDSSVQPDTRTEIKLSQSPNETSVQHLASDEENVYAAVGKGI	304
Anas platyrhynchos	LIVWDAIDWTKQASECNFWDSSVHPDSQTEIKLSQSPNETSVQHLTCDEECVFAAVGKGI	304
Chelonia_mydas	LIVWDALDWISQVCERNTWDPSFHTVTQQEIKLSQKQHEVSIQHLTSDAECVFAAVGKGI	304
Mus musculus	LLIWDALDWTVOACERTFWSPTAOLDAOOEIKLFOKONDISINHFTCDEENIFAAVGRGL	304
—		
Rattus_norvegicus	LIIWDALDWTVQACERTFWSPTPQLDAQQEIKLCQKQNDIPVNHFACDEENVFAAVGRGL	304
Homo_sapiens	LIIWDALDWTMQAYERNFWDPSPQLDTQQEIKLCQKSNDISIHHFTCDEENVFAAVGRGL	304
Pan_troglodytes	LIIWDALDWTMQAYERNFWDPSPQLDTQQEIKLCQKSNDISIHHFTCDEENVFAAVGRGL	304
Callithrix_jacchus	LIIWDALDWTVQAYERNFWDPSPQLDTQQEIKLCQKSNDISIHHFTCDEENVFAAVGRGL	304
Macaca_mulatta	LIIWDALDWTMQAYERNFWDPSPQLDTQQEIKLCQKSNDISIHHFTCDEENVFAAVGRGL	341
	MIIWDILDWTMQACECNFWDPSPQLDTQQEIKLCQKPNDISIHHFTWDEENVFAAVGRGL	357
Bos_taurus	LIIWDTLGWTVQACERNFWDPSPQLDAQREIKLCQKPNDVSIHHLTWDEENVFVAVGRGL	304
Equus_caballus	LIVWDVSDWTVQACERNFWTQLDTQQEIKLCQKPNDISIHHFTWDEENVFAAVGRGL	301
Rhinatrema_bivittatum	LIVW <mark>DSLDWT</mark> MLAYERSFWDTTSHHEALQEIKL-QKQKEISVQHFTTDGECVFAAIGRGI	302
Xenopus_tropicalis	LIVWDALDWTFKAVERNFSEILSPQDAPQEIKLLQTPEEISVQHLASDEESVFAAVGRGL	303
-	310320330340350360	

CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

File: /media/morpheus/disk1/fst/pep_msa/WD**R4**tepsTue Feb 1 14:54:20 2022 Page 3 of 3

```
***.* :**** *: **** : *: *** *.:*****:**:*:
                             YVYNLQMKRVIACQRTAHDSSVLHIEML<mark>PNRQ</mark>LISCSEDGSVRIWELREKQQLPTEPVPT
Pavo_muticus
                                                                                                             364
Pavo_cristatus
                             YVYNLQMKRVIACQRTAHDSSVLHIEML<mark>PNRQ</mark>LISCSEDGSVRIWELREKQQLPTEPV<mark>P</mark>T
                                                                                                             364
Gallus_gallus
                              YVYNLQMKRVIACQRTAHDSSVLHIEML<mark>PNRQ</mark>LI<mark>SCSEDGSVR</mark>IWEIREKQQL<mark>PTEP</mark>VPT
                                                                                                             364
Anas_platyrhynchos
                             YVYNLQMKRVIACQRTAHDSSVLHIEKL<mark>PNRQ</mark>LISCSEDGSVRIWELREKQQMPAEPV<mark>P</mark>T
                                                                                                             364
Chelonia mydas
                              YVYNLQMKRVIACQRTAHDSIVLHIAKL<mark>PNRQ</mark>LISCSEDGSVRIWELREKQQLPAEPV<mark>P</mark>T
                                                                                                             364
Mus_musculus
                             YVYNLQLKRVIACQKTAHDSNILHIDKL<mark>PNRQ</mark>LISCSEDGAVRMWEVREKQQLAAEPV<mark>P</mark>T
                                                                                                             364
Rattus_norvegicus
                              YVYNLQLKRVIACQKTAHDSNILHIDKL<mark>PNRQ</mark>LISCSEDGAVRMWEVREKQQLAAEPV<mark>P</mark>T
                                                                                                             364
                             YVYSL<mark>QMKR</mark>VIA<mark>CQKTAHDSNVLHVARLPNRQ</mark>LI<mark>SCSEDGSVR</mark>IWEL<mark>REKQQ</mark>LAAEPV<mark>P</mark>T
                                                                                                             364
Homo_sapiens
Pan_troglodytes
                             YVYSL<mark>QMKRVIACQKTAHDS</mark>NVLHIARL<mark>PNRQ</mark>LI<mark>SCSEDGSVR</mark>IWELREKQQLAAEPV<mark>P</mark>T
                                                                                                             364
Callithrix_jacchus
                             YVY<mark>N</mark>LQMKRVIACQKTAHDSNVLHIAKL<mark>PNRQ</mark>LISCSEDGSVRIWELREKQQLAAEPV<mark>P</mark>T
                                                                                                             364
Macaca_mulatta
                              VYNLHMKRVIACQKTAHDSSVLHIAKL<mark>PNRQ</mark>LISCSEDGSVRIWELREKQQLAAEPVPT
                                                                                                             401
Canis_lupus_familiaris
                             YVYNLQMKRVIACQKTAHDSSVLHVAKLPNRQLISCSEDGSVRIWELREKQQLAVEPVPT
                                                                                                             417
Bos taurus
                             YVYNL<mark>P</mark>MKRVIACQKAAHDSSVLHVAKLPNRQVISCSEDGSVRIWELREKQQLSVEPA<mark>P</mark>T
                                                                                                             364
Equus_caballus
                             YVYNL<mark>QMKR</mark>VIACQKTAHDSSVLHIARL<mark>PNRQ</mark>LISCSEDGSVRIWELREKQQLAAEPL<mark>P</mark>T
                                                                                                             361
                             YVYNLQMKRVIAYQRTAHDSNLLHITKL<mark>PNRQIISCSEDGSVRIWEIRERQ</mark>HTSGESV<mark>P</mark>T
Rhinatrema_bivittatum
                                                                                                             362
Xenopus_tropicalis
                             YVYNLQVKRVIAYQKRAHDSSIQHIAKL<mark>PNGQ</mark>FV<mark>SCSEDGSVR</mark>IWELRS<mark>KP</mark>-LHAESV<mark>P</mark>A
                                                                                                             362
                               \dots 370 \dots 380 \dots 390 \dots 400 \dots 410 \dots 420
                                                     ** .:.
                                                                   ***:*:****
                             **: ***** **: :
                             GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLATCSA
GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA
GFFNMWGFGRANKQANQ-AKKVQENTPMHFLELVGDLIGHSSAVQMFLYFSELGLVTCSA
GFFNMWGFGRANKQANQAAKKTQENTTMHFLELVGDLIGHSSAVQMFLYFGELGLVTCSA
Pavo_muticus
                                                                                                             423
Pavo cristatus
                                                                                                             423
                                                                                                             423
Gallus_gallus
Anas platyrhynchos
                                                                                                             424
Chelonia_mydas
                             GFLSMWGFGRANKQASQTAKKMQESTTSYSLELIGDLIGHSSAVQMFLYFSELGLVTCSA
                                                                                                             424
Mus musculus
                             GFFNMWGFGRVNKQASQPVKKQEENVTTCSLELIGDLIGHSSSVEMFLYFEDHGLVTCSA
                                                                                                             424
Rattus_norvegicus
                             GFFNMWGFGRVNKQANQPVKKQEENVTTCSLELIGDLIGHSSSVEMFLYFEDHGLVTCSA
                                                                                                             424
                             GFF<mark>n</mark>mw<mark>GFGR</mark>VS<mark>KQASQPVKKQQEN</mark>ATSCSLELI<mark>G</mark>DLIGHSSSVEMFLYFEDHGLVTCSA
Homo_sapiens
                                                                                                             424
                             GFFNMWGFGRVNKQASQPVKKQQENATSCSLELIGDLIGHSSSVEMFLYFEDHGLVTCSA
Pan_troglodytes
                                                                                                             424
Callithrix_jacchus
                             GFFNMWGFGRVNKQAHQPVKKQQENATSYSLELIGDLIGHSSSVEVFLYFEDHGLVTCSA
                                                                                                             424
                             GFFNMWGFGRVNKQASQPVKKQQENATSCSLELIGDLIGHSSSVEMFLYFEDHGLVTCSA
Macaca_mulatta
                                                                                                             461
Canis lupus familiaris GFFNMWGFGRVNKQASQPIKKQQENATPCSLELIGDLIGHSSSVEMFLYFEDHGLVTCSA
                                                                                                             477
Bos taurus
                             GFFNMWGFGRVNKQASHPAKKQQENATSCSLELIGDLIGHSSSVEMFLYFEDHGLVTCSA
                                                                                                             424
                             GFFNMWGFGRVNKQASQPVKKQQENT<mark>TP</mark>CSLELIGDLIGHSSSVEMFLHFEDHGLVTCSA
GFFSMWGFGKASKQTGQTVKKMQDNAVQVSLELIGDLIGHSSAVQMFLYFQRHGLVTCSA
Equus caballus
                                                                                                             421
Rhinatrema_bivittatum
                                                                                                             422
                             GFFSMWGFGKAAKQSSHAVKKPHDTGIVATLELIGNLIGHSGSVQMFLYFKDHGLVTCSA
Xenopus tropicalis
                                                                                                             422
                             .....430......440......450......460......470......480
                             ***:*:*:*** :*** ***** :*. *
                             DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF---
Pavo_muticus
                                                                                 458
                             DHLIILWKDGERESRLRSLTLFOKLAONGDLOLKF---
Pavo cristatus
                                                                                 458
Gallus_gallus
                             DHLVILWKDGERESRLRSLTLFQKLAQNGDLQLKF---
                                                                                 458
                             DHLIILWKDGERESRLRSLTLFQKLAQNGDLQLKF---
Anas_platyrhynchos
                                                                                 459
                             DHLIILWKDGERESRLRSLTLFQKLEQNDALQLSF---
                                                                                 459
Chelonia_mydas
Mus musculus
                             DHLIILW<mark>KNGERESG</mark>VRSLKLF<mark>QKLEENGDLYP</mark>ESP--
                                                                                 460
                             DHLIILWKNGERESGLRSLKLFQKLEENGDLYPEST--
Rattus_norvegicus
                                                                                 460
                             DHLIILWKNGERESGLRSLRLFQKLEENGDLYLAV---
Homo sapiens
                                                                                 459
Pan_troglodytes
                             DHLIILWKNGERESGLRSLRLFQKLEENGDLYLAV---
                                                                                 459
                             DHLIILWKNGERESRLRSLRLFQKLEENGDLHLAL---
Callithrix_jacchus
                                                                                 459
                             DHLIILWKNGERESGLRSLRLFOKLEENGDLYLAV---
Macaca mulatta
                                                                                 496
Canis lupus familiaris DHLIILWKNGERESGLRSLKLFOKLEENGDLYLAV---
                                                                                 512
                             DHLIILW<mark>KNGERESG</mark>LRSLKLFQKLEENGDLYLSV---
Bos_taurus
                                                                                 459
                             DHLIILWKNGERESGLRSLKLFQKLEENGDLYLTV---
Equus_caballus
                                                                                 456
                             DHLIILWKDGERESRLRSLNLFQKLEENGDLLSKF---
Rhinatrema_bivittatum
                                                                                 457
                             DHLIIIWKEGNRESRLRSLMLFQKLEQNGDLNPRFSLN
Xenopus_tropicalis
                                                                                 460
```

......490......500......510......