File: /home/ceglab2/Desktop/ajinkya/pavo/MS**N**&FHHS14.Feb 15 15:11:32 2022 Page 1 of 7

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Xenopus tropicalis	MGMMKGIF	LLLMLAV <mark>PQ<b>T</b>Y<b>Q</b>AA<b>E</b></mark>	SGNDDNSVFDLF <b>E</b> LT	GYNRKTGSRKPEGLH	53
Rhinatrema bivittatum		LLLLTVCTSSQIPE			53
Pavo muticus	MGPAAVLVLL	LLAL- <mark>GGP</mark> EAK <mark>RT</mark> AE	SR <mark>GDDDS</mark> VF <mark>D</mark> LF <mark>E</mark> LA	GLIRKGAGRRAPGVH	54
Pavo_cristatus	MGPAAVLVLL	LLAL- <mark>GGP</mark> EAK <mark>RT</mark> AE	<mark>S</mark> R <mark>GDDDS</mark> VFDLF <b>E</b> LA	GLIRKGAGRRA <mark>PGVH</mark>	54
Gallus_gallus	MGPAAVVVLL	LLAL- <mark>GGP</mark> EAK <mark>RTAE</mark>	SR <mark>GDDDS</mark> VFDIFEL <mark>T</mark>	– – <mark>VRKGAGRRAPGVH</mark>	52
Anas_platyrhynchos		LLLLR <mark>GGS</mark> EAR <mark>RTAE</mark>			55
Chelonia_mydas		LMFGVCGANQIPE			53
Homo_sapiens		VLFLMHVC <mark>GT</mark> NRI <mark>PE</mark>			47
Pan_troglodytes		VLFLMHVC <mark>GT</mark> NRI <mark>PE</mark>			47
Macaca_mulatta		VLFLLHVC <mark>GT</mark> NRI <mark>PE</mark>			47
Callithrix_jacchus		LLFLLQVC <mark>GT</mark> NRIPE			47
Equus_caballus		VLFLLHVC <mark>GS</mark> NRI <mark>PE</mark>			47
Pteropus_alecto Bos_taurus		VLFLVHVCA <mark>S</mark> S <mark>RIPE</mark> VLLLLHAC <mark>GS</mark> NRIPE			47 47
Mus musculus		VLFLLHMCGSNRIPE			47
Ornithorhynchus anatinus	MGPLRGLAPLPMLLL				54
Latimeria_chalumnae		LIMLVGLCGASRSLE			49
nacimeria_charamae		2030			1,7
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Xenopus_tropicalis		DADLI <mark>PPLPE</mark> VKFQD:			113
Rhinatrema_bivittatum		NAELI <mark>P</mark> SLA <mark>DEKFQ</mark> D:			113
Pavo_muticus		DASRI <mark>P</mark> AVPDS <mark>KFQ</mark> D:			114
Pavo_cristatus		DASRI <mark>P</mark> AVPDS <mark>KFQ</mark> D:			114
Gallus_gallus		DASRI <mark>P</mark> AVSDSKFQD:			112
Anas_platyrhynchos		DASRI <mark>PAVPDAKFQ</mark> D			115
Chelonia_mydas		DASRI <mark>P</mark> AV <mark>PDDKFQ</mark> D			113
Homo_sapiens		DANLI <mark>PP</mark> VPDDKFQD			107
Pan_troglodytes Macaca mulatta		DANLI <mark>PPVPDDKFQ</mark> D DANLI <mark>PPVPDDKFQ</mark> D			107 107
Callithrix jacchus		DANLIPPVPDDKLQD:			107
Equus_caballus		DANLIPPVPDDKFQD			107
Pteropus_alecto		DANLIPPVPDDKFOD			107
Bos taurus		DANLIPPVPDKKFOD			107
Mus musculus		NANLI <mark>PAVPDDKFQ</mark> D:			107
Ornithorhynchus_anatinus		DAGLI <mark>P</mark> AVPDDKFQD:			114
Latimeria_chalumnae		NVDR <mark>IPPVPE</mark> SIFLE:			109
	70	8090		110120	
Vananas kasadas 1 da	*. * .*::*.::**		*::**:*:* ***::		177
Xenopus_tropicalis Rhinatrema bivittatum		GRAGTLDLSLSGERK GRAGTLDITLSGEGK			173 173
Pavo muticus		GKAGTLDLTLSGEGK GKAGTLDLSLSGDGK			173 174
Pavo_cristatus	ERKDGSGHIFSLVSN	GKAGTLDLSLSGDGK GKAGTLDLSLSGDGK	OOT.VSVEDAT.T.ATCH	WKNITIFVOEDRAGI.	174
Gallus gallus		GKAGTLDLSLSGDGK			172
Anas platyrhynchos		GKAGTLDLSLSGDGK			175
Chelonia_mydas		GKAGTLDLSLSGDGK			173
Homo sapiens		GKAGTLDLSLTVQGK			167
Pan_troglodytes		GKAGTLDLSLTVQGK			167
Macaca_mulatta	ERKDH <mark>SG</mark> QVFSVVSN	GKAGTLDLSLTVQGK	QHVV <mark>S</mark> V <mark>EE</mark> ALLA <mark>TG</mark> QI	W <mark>KS</mark> ITLFVQEDRAQL	167
Callithrix_jacchus		GKAGTLDL <mark>S</mark> LTVQGK			167
Equus_caballus		GKAGTLDL <mark>S</mark> LTVQGK			167
Pteropus_alecto		GKAGTLDL <mark>S</mark> LTVQGK			167
Bos_taurus		GKAGTLDLSLTVQGK			167
Mus_musculus		GKAGTLDLSLSLPGK			167
Ornithorhynchus_anatinus	ERADGSGHVFSLVSN				174
Latimeria_chalumnae		GKAGTLDLTFTVDGK			169
	13U	140150	TpO	/uT80	

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Xenopus tropicalis	YVGCDKMENAELDVPIQKIFTEDLASKAHLRVAKGGVKDN-FQGVLQNVRFVFGTTLEAI	232
Rhinatrema bivittatum	YVGCEKMENAELDIPIQKIFNRDLANIARLRIAKGGVKDN-FQGVLQNLRFVFGTTIEAI	232
Pavo muticus	YVGCEKMENAELDIPIQNIFTRDLASSARLRIAKGGVNDN-FQGLLQNVRFVFGTTLETI	232
Pavo_cristatus	YVGCEKMENAELDIPIQNIFTRDLASSARLRIAKGGVNDN-FQGLLQNVRFVFGTTLETI	233
Gallus_gallus	YVGCEKMENAELDIPIONIFTROLASSARLRIAKGGVNDN-FOGLLONVRFVFRTTLETI	231
	YVGCEKMENAELDIPIONIFTRDLASSARLRIAKGGVNDN-FOGLLONVRFVFGTTLETI	231
Anas_platyrhynchos		234
Chelonia_mydas	YV <mark>GCEK</mark> MENAELDIPIQNIFTRDLASSAKLRIAKGGVNDN-FQGVLQNVRFVFGTTLEAI	232
Homo_sapiens	YIDCEKMENAELDVPIQSVFTRDLASIARLRIAKGGVNDN-FQGVLQNVRFVFGTTPEDI	226
Pan_troglodytes	YIDCEKMENAELDVPIQSVFTRDLASIARLRIAKGGVNDN-FQGVLQNVRFVFGTTPEDI	
Macaca_mulatta	YIDCEKMENAELDVPIQSVFTRDLASIARLRIAKGGVNDN-FQGVLQNVRFVFGTTPEDI	226
Callithrix_jacchus	YIDCEKMENAELDVPIQSVFTRDLASIARLRIAKGGVNDN-FQGVLQNVRFVFGTTPEDI	226
Equus_caballus	YIDCEKMENAELDVPIQSIFTRDLASIARLRIAKGGVNDN-FQGVLQNVRFVFGTTPEDI	226 226
Pteropus_alecto	YIDCEKMENAELDVPIQSIFTRDLASIARLRIAKGGVNDN-FQGVLQNVRFVFGTTPEDV	
Bos_taurus	YIDCEKMENAELDVPIQSIFTRDLASIARLRIAKGGVNDN-FQGVLQNVRFVFGTTPEDI	226
Mus_musculus	YIDCDKMESAELDVPIQSIFTRDLASVARLRVAKGDVNDN-FQGVLQNVRFVFGTTPEDI	226
Ornithorhynchus_anatinus	YV <mark>GCDKMENAELDVP</mark> IQSVFTRDLA <mark>G</mark> HARLYVARGGVNDN-FQGGLQNVRFVFGTTPEDI	233
Latimeria_chalumnae	YVGCDKIENVELEAPIQKILHPSIASTTRLRLAKGNVKENNFQGSLSNVRFVFGTTLEAI	229
	$\dots \dots 190 \dots \dots 200 \dots \dots 210 \dots \dots 220 \dots \dots 230 \dots \dots 240$	
	*****	
Vanance torninalia		201
Xenopus_tropicalis	LRNKGCSSMTNSVITLDN-PVNGSSPAIRTNYIGHKTKDLHAVCGISCDDLSKLFAEMKG	291 290
Rhinatrema_bivittatum	LRNKGCASSTN-TITFNN-PVNGSSPAIRTSYTGHKIKDIEAICGFSCDEMTNMFLEMRR	
Pavo_muticus	LRNKGCSSSTSAIITLDN-PMNGSSPAIRTNYIGHKTKDIQAVCGFSCDELTNMFVELQG	292 292
Pavo_cristatus	LRNKGCSSSTSAIITLDN-PMNGSSPAIRTNYIGHKTKDIQAVCGFSCDELTNMFVELQG	_
Gallus_gallus	MRNKGCSSSTSAIITLDK-PMNGSSPAIRTNYIGHKTKDIQAVCGFSCDELTNMFVELQG	290
Anas_platyrhynchos	LRNKGCSSSTSAIITLDN-PMNGSSPAIRTNYIGHKTKDIQAVCGFSCDELTNMFVELQG	293
Chelonia_mydas	LRNKGCSSSTSAIITLDN-PINGSSPAIRTNYIGHKTKDIQAICGFSCDELTNMFVEMQG	291
Homo_sapiens	LRNKGCSSSTSVLLTLDNNVVNGSSPAIRTNYIGHKTKDLQAICGISCDELSSMVLELRG	286
Pan_troglodytes	LRNKGCSSSTSVLLTLDNNVVNGSSPAIRTNYIGHKTKDLQAICGISCDELSSMVLELRG	286
Macaca_mulatta	LRNKGCSSSTSVLLTLDNNVVNGSSPAIRTNYIGHKTKDLQAICGISCDELSSMVLELRG	286
Callithrix_jacchus	LRNKGCSSSTNVLLTLDNNVVNGSSPAIRTNYIGHKTKDLQAICGISCDELSSMVLELRG	286
Equus_caballus	LRNKGCSSSTNVLLTLNNNVVNGSSPAIRTNYIGHKTKDLQAICGISCDELSNMVLELRG	286
Pteropus_alecto	LRNKGCSSSTNVLLTLDNNVVNGSSPAIRTNYIGHKTKDLQAICGISCDELSSMVLELRG	286
Bos_taurus	LRNKGCSSSTSVFVTLDNNVVNGSSPAIRTDYIGHKTKDLQAICGISCDELSSMVLELRG	286
Mus_musculus	LRNKGCSSSTNVLLTLDNNVVNGSSPAIRTNYIGHKTKDLQAICGLSCDELSSMVLELKG	286
Ornithorhynchus_anatinus		292
Latimeria_chalumnae	LRNKGCSSFSTETIKLDN-PVNGSSPAIRSNYIGHKIKNVCGFTCDELTEMFKEMKG	285
	250260270280290300	
	*:.:: : : : : *.	254
Xenopus_tropicalis	LRTLVTSLQDQVTKETERNELIAQRVTMTPGACLHNGVLHKNRDEWTVDSCTECTCQNSA	351
Rhinatrema_bivittatum	L <mark>Q</mark> NIVRSVQEKV <mark>QKVTEENQ</mark> LLA <mark>G</mark> RA <mark>P</mark> SILGVCVHNGIQHEHREEWTIDSCTECTCQNSA	350
Pavo_muticus	LRSMVTTLQDRVRKVTEENELIAKVVQITPGVCIHNGILHKNKEEWTIDSCTECTCQNSA	352
Pavo_cristatus	LRSMVTTLQDRVRKVTEENELIAKVVQITPGVCIHNGILHKNKEEWTIDSCTECTCQNSA	352
Gallus_gallus	LRSMVTTLQDRVRKVTEENELIAKVVQITPGVCIHNGILHKNKEEWTIDSCTECTCQNSA	350
Anas_platyrhynchos	LRSMVTTLQDRVRKVTEENELIAKVVQITPGVCIHNGIMHKNKEEWTIDSCTECTCQNSA	353
Chelonia_mydas	LRSMVTTLQDRVRKVTEENELIAKVVQITPGVCIHNGILHKNKEEWTIDSCTECTCQNSA	351
Homo_sapiens	LRTIVTTLQDSIRKVTEENKELAN-ELRRPPLCYHNGVQYRNNEEWTVDSCTECHCQNSV	345
Pan_troglodytes	LRTIVTTLQDSIRKVTEENKELAN-ELRRPPLCYHNGVQYRNNEEWTVDSCTECHCQNSV	345
Macaca_mulatta	LRTIVTTLQDSIRKVTEENKELAN-ELRRPPLCYHNGVQYRNNEEWTVDSCTECRCQNSV	345
Callithrix_jacchus	LRTIVTTLQDSIRKVTEENKELAN-ELRRPPLCYHNGVQYRNNEEWTVDSCTECRCQNSV	345
Equus_caballus	LRTIVTTLQDSIRKVTEENKELAN-ELRRPPLCYHNGVQYRNNEEWTVDSCTECRCQNSV	345
Pteropus_alecto	LRTVVTTLQDSIRKVTEENKELAN-ELRRPPLCYHNGVQYRNNEEWTVDSCTECHCQNSV	345
Bos_taurus	LRTIVTTLQDSIRKVTEENKELAN-ELRRPPLCYHNGVQYRTGDEWTVDSCTECRCQNSV	345
Mus_musculus	LRTIVTTLQDSIRKVTEENRELVS-ELKRPPLCFHNGVQYKNNEEWTVDSCTECHCQNSV	345
Ornithorhynchus_anatinus		352
Latimeria_chalumnae	LQSVITQLVEDLNNMRQLNEMTGGRIGISQGTCIYKGNVHRENEEWTVDNCMECSCKNSA	345
	310320330340350360	

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Xenopus_tropicalis	TICRKVSCPLMPCTNATIPDGECCPRCWPS-DSADDDWSPWSDWTPCSVTCGHGIQQRGR	410
Rhinatrema_bivittatum	TICRKISCPLMTCANATIPDGECCPRCWPS-DSADDDWSPWSEWTSCSVTCGSGIQQRGR	409
Pavo_muticus	TICRKVSCPLMPCSNATVPDGECCPRCWPS-DYADDGWSPWSEWTSCSVTCGNGIQQRGR	411
Pavo_cristatus	TICRKVSCPLMPCSNATVPDGECCPRCWPS-DYADDGWSPWSEWTSCSVTCGNGIQQRGR	411
Gallus_gallus	TICRKVSCPLMPCSNATVPDGECCPRCWPS-DYADDGWSPWSEWTSCSVTCGNGIQQRGR	409
Anas_platyrhynchos	TICRKVSCPLMPCSNATVPDGECCPRCWPS-DYADDGWSPWSEWTSCSVTCGNGIQQRGR	412
Chelonia_mydas	TICRKVSCPLMPCSNATVPDGECCPRCWPS-DYAEDGWSPWSEWTSCSVTCGNGVQQRGR	410
Homo_sapiens	TICKKVSCPIMPCSNATVPDGECCPRCWPS-DBADDGWSPWSEWTSCSTSCGNGIQQRGR	404
Pan_troglodytes	TICKKVSCPIMPCSNATVPDGECCPRCWPS-DSADDGWSPWSEWTSCSTSCGNGIQQRGR	404
Macaca_mulatta	TICKKVSCPIMPCSNATVPDGECCPRCWPS-DSADDGWSPWSEWTSCSTSCGNGIQQRGR	404
Callithrix_jacchus	TICKKVSCPIMPCSNATVPDGECCPRCWPS-DSADDGWSPWSEWTSCSTTCGNGIQQRGR	404
Equus_caballus	TICKKVSCPIMPCSNATVPDGECCPRCWPS-DSADDGWSPWSEWTSCSVTCGNGIQQRGR	404
Pteropus_alecto	TICKKVSCPIMPCSNATVPDGECCPRCWPS-DSADDGWSPWSEWTSCSATCGNGIQQRGR	404
Bos_taurus	TICKKVSCPIMPCSNATVPDGECCPRCWPASDSADDGWSPWSEWTSCSVTCGNGIQQRGR	405
Mus musculus	TICKKVSCPIMPCSNATVPDGECCPRCWPS-DSADDGWSPWSEWTSCSATCGNGIQQRGR	404
Ornithorhynchus anatinus		411
Latimeria_chalumnae	TFCSKVSCPLVSCANATVPDGECCPRCLPN-DSAEDSWSPWSEWTPCSVSCGTGTOORGR	404
	370380390400410420	
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Xenopus tropicalis	SCDSLNNRCEGSSVQTRSCHIQECDKRFKQDGGWSHWSPWSSCSVTCGSGQITRIRLCNS	470
Rhinatrema_bivittatum	SCDSLNNRCIGSSMQTRSCHIQNCDKRFKQDGGWSHWSPWSSCSVTCGSGQITRIRLCNS	469
Pavo muticus	SCDSLNNRCEGSSVOTRTCHLOECDKRFKODGGWSHWSPWSSCSVTCGTGVITRIRLCNS	471
Pavo cristatus	SCDSLNNRCEGSSVQTRTCHLQECDKRFKQDGGWSHWSPWSSCSVTCGTGVITRIRLCNS	471
Gallus gallus	SCDSLNNRCEGSSVOTRTCHLOECDKRFKODGGWSHWSPWSSCSVTCGTGMITRIRLCNS	469
Anas_platyrhynchos	SCDSLNNRCEGSSVQTRTCHLQECDKRFKQDGGWSHWSPWSSCSVTCGTGMITRIRLCNS	472
Chelonia mydas	SCDSLNNRCEGSSVQTRTCHIQECDKRFKQDGGWSHWSPWSSCSVTCGTGMITRIRLCNS	470
Homo_sapiens	SCDSLNNRCEGSSVQTRTCHIQECDKRFKQDGGWSHWSPWSSCSVTCGDGVITRIRLCNS	464
Pan troglodytes		464
Macaca mulatta	SCDSLNNRCEGSSVQTRTCHIQECDKRFKQDGGWSHWSPWSSCSVTCGDGVITRIRLCNS SCDSLNNRCEGSSVQTRTCHIQECDKRFKQDGGWSHWSPWSSCSVTCGDGVITRIRLCNS	464
<del>_</del>		
Callithrix_jacchus	SCDSLNNRCEGSSVQTRTCHIQECDKRFKQDGGWSHWSPWSSCSVTCGDGVITRIRLCNS	464
Equus_caballus	SCDSLNNRCEGSSVQTRTCHIQECDKRFKQDGGWSHWSPWSSCSVTCGDGVITRIRLCNS	464
Pteropus_alecto	SCDSLNNRCEGSSVQTRTCHIQECDKRFKQDGGWSHWSPWSSCSVTCGDGVITRIRLCNS	464
Bos_taurus	SCDSLNNRCEGSSVQTRTCHIQECDKRFKQDGGWSHWSPWSSCSVTCGDGVITRIRLCNS	465
Mus_musculus	SCDSLNNRCEGSSVQTRTCHIQECDKRFKQDGGWSHWSPWSSCSVTCGDGVITRIRLCNS	464
Ornithorhynchus_anatinus		471
Latimeria_chalumnae	SCDRINNICLGPSVQTRTCHIQECDKRFRQDGGWSYWSPWSSCSVTCGIGVKTRIRLCNS	464
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Xenopus_tropicalis	PVPQLNGKPCEGEGRENKPCQKDPCPINGQWGPWSLWDTCTVTCGGGMMKRERLCNNPKP	530
Rhinatrema_bivittatum	PRPQLNGKECWGEARENKPCQKDPCPIHGQWGPWSPWDSCTVTCGGGIQKRGRLCNDPEP	529
Pavo_muticus	PVPQLNGKPCEGEARETKSCQKDPCPINGNWGPWSPWDACTVTCGGGLQKRSRLCNNPEP	531
Pavo_cristatus	PVPQLNGKPCEGEARETKSCQKDPCPINGNWGPWSPWDACTVTCGGGLQKRSRLCNNPEP	531
Gallus_gallus	PVPQLNGKPCEGEARETKSCQKDPCPINGNWGPWSPWDACTVTCGGGLQKRSRLCNNPEP	529
Anas_platyrhynchos	PVPQLNGKPCEGEARETKSCQKDPCPINGNWGPWSPWDACTVTCGGGLQKRSRLCNNPEP	532
Chelonia_mydas	PVPQMNGKPCEGEARETKSCQKDPCPINGNWGPWSPWDVCTVTCGGGIQKRGRLCNDPEP	530
Homo_sapiens	PSPQMNGKPCEGEARETKACKKDACPINGGWGPWSPWDICSVTCGGGVQKRSRLCNNPTP	524
Pan_troglodytes	PSPQMNGKPCEGEARETKACKKDACPINGGWGPWSPWDICSVTCGGGVQKRSRLCNNPTP	524
Macaca_mulatta	PSPQMNGKPCEGEARETKACKKDACPINGGWGPWSPWDICSVTCGGGVQKRSRLCNNPTP	524
Callithrix_jacchus	PSPQMNGKPCEGEARETKACKKDACPINGGWGPWSPWDICSATCGGGVQKRRRLCNNPAP	524
Equus_caballus	PSPQMNGKPCEGEARETKACRKDACPINGGWGPWSPWDICSVTCGGGVQKRSRLCNNPTP	524
Pteropus_alecto	PSPQMNGKPCEGEARETKVCKKDACPVNGGWGPWSPWDICSVTCGGGVQKRSRLCNNPTP	524
Bos_taurus	PSPQMNGKPCEGKARETKACQKDSCPINGGWGPWSPWDICSVTCGGGVQKRSRLCNNPTP	525
Mus_musculus	PSPQMNGKPCEGEARETKACKKDACPINGGWGPWSPWDICSVTCGGGVQRRSRLCNNPTP	524
Ornithorhynchus_anatinus	PSPQMNGKPCKGEARETKACQKDACPINGGWGPWSPWDVCSATCGGGLQQRKRLCNNPKP	531
Latimeria_chalumnae	PTPQMGGRQCEGEGRETQECQKDPCPINGNWGPWSPWNTCTVTCGGGIQKHSRLCDSPMP	524
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Xenopus_tropicalis	QYGGKECIGDPTDSQICNKQDCPIDGCLSNPCFAGVKCTSFIDGSWKCGSCPPGYRGNGI	590
Rhinatrema_bivittatum	RYGGKDCIGDILETQICNKEDCPIDGCLSNPCFVGTKCTSFPDGSWKCGACPSGYQGNGI	589
Pavo_muticus	QYGGKTCVGDAKGTQVCNKQDCPVDGCLSNPCFAGTTCTSSPDGSWKCGACPAGYHGDGI	591
Pavo_cristatus	QYGGKTCVGDAKGTQVCNKQDCPVDGCLSNPCFAGTTCTSSPDGSWKCGACPAGYHGDGI	591
Gallus_gallus	QYGGKACVGEAKGTQVCNKQDCPVDGCLSNPCFAGTTCTSSPDGSWKCGACPAGYHGNGI	589
Anas platyrhynchos	OYGGKTCVGEAKGTOVCNKODCPIDGCLSNPCFAGTTCTSSPDGSWKCGACPAGYHGDGI	592
Chelonia mydas	QYGGKDCIGDATGTQVCNKQDCPIDGCLSNPCFAGTTCTSSPDGSWKCGACPTGYHGNGV	590
Homo sapiens	QFGGKDCVGDVTENQICNKQDCPIDGCLSNPCFAGVKCTSYPDGSWKCGACPPGYSGNGI	584
Pan_troglodytes	OFGGKDCVGDVTENOICNKODCPIDGCLSNPCFAGVKCTSYPDGSWKCGACPPGYSGNGI	584
Macaca mulatta	QFGGKDCIGDVTENQICNKQDCPIDGCLSNPCFAGVKCTSYPDGSWKCGACPPGYSGNGI	584
Callithrix jacchus	OFGGKDCIGDVTENOICNKODCPIDGCLSNPCFAGVKCTSYPDGSWKCGACPPGYSGNGI	584
	OFGGKDCVGDVTENQICNKODCPIDGCLSNPCFAGTKCTSYPDGSWKCGACPPGYSGNGV	584
Equus_caballus		584
Pteropus_alecto	QFGGKDCVGEVMENQICNEQDCPIDGCLSNPCFAGTKCTSYPDGSWKCGACPPGYGGNGV	
Bos_taurus	QFGGKDCIGDVTENQICNKQDCPIDGCLSNPCFAGVQCTSYPDGSWKCGACPPGYSGDGV	585
Mus_musculus	QFGGKDCVGDVTENQVCNKQDCPIDGCLSNPCFAGAKCTSYPDGSWKCGACPPGYSGNGI	584
Ornithorhynchus_anatinus	QFGGKDCVGDATGSQTCNKQDCPIDGCLSNPCFAGTKCTSFADGTWKCGACPSGYTGDGV	591
Latimeria_chalumnae	KYGGKECVGEATATQICNKEDCPIDGCLSNPCFAGTKCTSFPDGSWKCGACPAGYQGNGV	584
	550560570580590600	
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Xenopus tropicalis	TCKDIDECKEVPDACFSLNGVHRCENTEPGYNCLPCPPRFTGTOPFGKGIDEAKANKOVC	650
Rhinatrema_bivittatum	QCHDIDECKEVPDTCFVHNGVHRCENTEPGYNCLPCPPRFTGTQPFGRNIDEATANKQVC	649
Pavo muticus	HCODIDECKEVPDACFYFNGVHRCENTEPGYNCLPCPPRFTGSOPFGRSVEDAMANKOVC	651
Pavo cristatus	HCQDIDECKEVPDACFVFNGVHRCENTEPGYNCLPCPPRFTGSQPFGRSVEDAMANKQVC	651
Gallus gallus	HCODIDECKEVPDACFVFNGVHRCENTEPGYNCLPCPPHFTGSOPFGRSVEDATANKOVC	649
Anas platyrhynchos	HCEDIDECKEVPDACFHFNGVHRCENTEPGYNCLPCPPRFTGTQPFGRSVEDAMANKQVC	652
Chelonia mydas	OCKDIDECOEVPDTCFVLNGVHRCENTEPGYNCLPCPPRFTGTOPFGRGIEDATANKOVC	650
Homo_sapiens	QCTDVDECKEVPDACFNHNGEHRCENTDPGYNCLPCPPRFTGSQPFGQGVEHATANKQVC	644
Pan_troglodytes	QCTDVDECKEVPDACFNHNGEHRCENTDPGYNCLPCPPRFTGSQPFGQGVEYATANKQVC	644
Macaca_mulatta	QCTDVDECKEVPDACFNHNGEHRCKNTDPGYNCLPCPPRFTGSQPFGQGVEYATANKQVC	644
Callithrix_jacchus	QCRDVDECKEVPDACFNHNGEHRCKNTDPGYNCLPCPPRFTGSQPFGQGVEHATANKQVC	644
Equus_caballus	QCEDVDECKEVPDACFNHNGEHRCRNTDPGYNCLPCPPRFTGSQPFGQGVEHAAANKQVC	644
Pteropus_alecto	QCKDIDECKLVPDACFNHNGEHRCENTDPGYNCLPCPPRFTGPQPFGQGVEHATANKQVC	644
Bos_taurus	ECKDVDECKEVPDACFNHNGEHRCENTDPGYNCLPCPPRFTGSQPFGRGVEHATANKQVC	645
Mus_musculus	QCKDVDECKEVPDACFNHNGEHRCKNTDPGYNCLPCPPRFTGSQPFGRGVEHAMANKQVC	644
Ornithorhynchus_anatinus	RCKDIDECLEVPDACFHFNGEHRCENTDPGYNCLPCPPRFAGPRPFGRSIEFAAANKQVC	651
Latimeria chalumnae	QCEDIDECKEVPDTCFVFNGVHRCENTEPGYNCLPCPPRFNGLQPYGRGVEEATGNKQVC	644
_	610620630640650660	
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Xenopus tropicalis	KPRNPCADGTHDCHRNARCIYLGHYSDPMYRCECKPGYAGNGIICGEDTDLDGWPNENLT	710
Rhinatrema bivittatum	KPONPCTDGTHNCNKNARCIYLGHYTDPMFRCECKPGYAGNGIICGEDTDLDGWPNENLV	709
Pavo muticus	KPRNPCTDGTHDCNKNAKCNYLGHFSDPMYRCECKPGYAGNGIICGEDTDLDGWPNENLV	711
Pavo_cristatus	KPRNPCTDGTHDCNKNAKCNYLGHFSDPMYRCECKPGYAGNGIICGEDTDLDGWPNENLV	711
Gallus gallus	KPRNPCTDGTHDCNKNAKCNYLGHFSDPMYRCECKPGYAGNGIICGEDTDLDGWPNENLV	709
	KPRNPCTDGTHDCNKNAKCNYLGHFSDPMYRCECKPGYAGNGIICGEDTDLDGWPNENLV	709
Anas_platyrhynchos		
Chelonia_mydas	KPRNPCTDGTHDCNKNAKCNYLGHFSDPMYRCECKPGYAGNGIICGEDTDLDGWPNENLV	710
Homo_sapiens	KPRNPCTDGTHDCNKNAKCNYLGHYSDPMYRCECKPGYAGNGIICGEDTDLDGWPNENLV	704
Pan_troglodytes	KPRNPCTDGTHDCNKNAKCNYLGHYSDPMFRCECKPGYAGNGIICGEDTDLDGWPNENLV	704
Macaca_mulatta	KPRNPCTDGTHDCNKNAKCNYLGHYSDPMYRCECKPGYAGNGIICGEDTDLDGWPNEDLV	704
Callithrix_jacchus	KPRNPCTDGTHDCNKNAKCNYLGHYSDPMYRCECKPGYAGNGIICGEDTDLDGWPNENLV	704
Equus_caballus	KPRNPCTDGTHDCNKNAKCNYLGHYSDPMYRCECKPGYAGNGIICGEDTDLDGWPNEDLV	704
Pteropus_alecto	KPRNPCTDGTHDCNKNAKCNYLGHYSDPMFRCECKPGYAGNGIICGEDTDLDGWPNEDLV	704
Bos_taurus	KPRNPCTDGTHDCNKNAKCNYLGHYSDPMYRCECKPGYAGNGIICGEDTDLDGWPNEDLL	705
Mus_musculus	KPRNPCTDGTHDCNKNAKCNYLGHYSDPMYRCECKPGYAGNGIICGEDTDLDGWPNENLV	704
Ornithorhynchus anatinus	KPRNPCTDGTHDCNRNAKCNYLGHFSDPMFRCECKPGYAGNGIICGEDTDLDGWPNEDLV	711
Latimeria chalumnae	KPRNPCTDGTHNCNKHARCIYLGHYSDPMFRCECRPGYAGNGIICGEDTDLDGWPNQDLL	704
<del> </del>	670680690700710720	

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Xenopus_tropicalis	CVANATYHCMKDNCPNLPNSGQEDYDKDGMGDACDKDDDNDGILDDRDNCQFVYNPAQYD	770
Rhinatrema_bivittatum	CVANATYHCTKDNCPNLPNSGQEDYDKDGIGDACDNDDDSDGILDERDNCPFIYNPQQYD	769
Pavo_muticus	CVANATYHCKKDNCPNLPNSGQEDYDKDGIGDACDNDDDDDGIPDDRDNCPFIYNPQQYD	771
Pavo_cristatus	CVANATYHCKKDNCPNLPNSGQEDYDKDGIGDACDNDDDDDGIPDDRDNCPFIYNPQQYD	771
Gallus_gallus	CVANATYHCKKDNCPNLPNSGQEDYDKDGIGDACDNDDDDDGIPDDRDNCPFIYNPQQYD	769
Anas platyrhynchos	CVANATYHCKKDNCPNLPNSGOEDYDKDGIGDACDNDDDDDGIPDDRDNCPFIYNPOOYD	772
Chelonia mydas	CVANATYHCKKDNCPNLPNSGQEDYDKDGIGDACDNDDDNDNIPDDRDNCAFIYNPQQYD	770
Homo sapiens	CVANATYHCKKDNCPNLPNSGQEDYDKDGIGDACDDDDDNDKIPDDRDNCPFHYNPAQYD	764
Pan_troglodytes	CVANATYHCKKDNCPNLPNSGQEDYDKDGIGDACDDDDDNDKIPDDRDNCPFHYNPAQYD	764
Macaca mulatta	CVANATYHCKKDNCPNLPNSGQEDYDKDGIGDACDDDDDNDKIPDDRDNCPFHYNPAQYD	764
Callithrix jacchus	CVANATYHCKKDNCPNLPNSGOEDYDKDGIGDACDDDDDNDKIPDDRDNCPFHYNPAOYD	764
Equus caballus	CVANATYHCKKDNCPNLPNSGQEDYDKDGIGDACDDDDDNDKIPDDRDNCPFHYNPAQYD	764
Pteropus alecto	CVANATYHCKKDNCPNLPNSGQEDYDKDGIGDACDDDDDNDKIPDDRDNCPFHYNPAQYD	764 764
Bos_taurus	CVANATYHCRKDNCPNLPNSGQEDYDKDGIGDACDDDDDNDKIPDDRDNCPFHYNPAQYD	765
Mus_musculus	CVANATYHCKKDNCPNLPNSGQEDYDKDGIGDACDDDDDNDKIPDDRDNCPFHYNPAQYD	764
Ornithorhynchus_anatinus	CVANATYHCKKDNCPNIPNSGQEDYDGDGIGDACDSDDDNDKIPDDRDNCPFHYNPAQYD	771
Latimeria_chalumnae	CVA <mark>NATYHCTKDNCP</mark> TL <mark>PNSGQEDYDKDGIG</mark> DACDKDDDDDGIPDERDNCPLIFNPQQYD	764
	730740750760770780	
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Xenopus_tropicalis	YDRDDVGDRCDNCPYNHNPDQADTDRNGEGDACAVDIDGDGILNERDNCPYVYNVDQRDT	830
Rhinatrema_bivittatum	YDRDDVGDRCDNCPYNHNPDQTDTDNNQEGDACAVDIDGDGVLNERDNCPYVYNVDQRDT	829
Pavo muticus	YDRDEVGDRCDNCPYNHNPDOIDTDNNGEGDACAVDIDGDGVLNERDNCOYVYNVDORDT	831
Pavo cristatus	YDRDEVGDRCDNCPYNHNPDQIDTDSNGEGDACAVDIDGDGVLNERDNCQYVYNVDQRDT	831
Gallus gallus	YDRDDVGDRCDNCPYNHNPDQIDTDNNGEGDACAVDIDGDGVLNERDNCQYVYNVDQRDT	829
Anas platyrhynchos	YDRDDVGDRCDNCPYNHNPDOIDTDNNGEGDACAVDIDGDGVLNERDNCOYVYNVDORDT	832
Chelonia mydas	YDRDDVGDRCDNCPYNHNPDQTDTDNNGEGDACAVDIDGDGILNERDNCQYVYNVDQRDT	830
Homo_sapiens	YDRDDVGDRCDNCPYNHNPDQADTDNNGEGDACAADIDGDGILNERDNCQYVYNVDQRDT	824
Pan troglodytes	YDRDDVGDRCDNCPYNHNPDQADTDNNGEGDACAADIDGDGILNERDNCQYVYNVDQRDT	824
		824
Macaca_mulatta	YDRDDVGDRCDNCPYNHNPDQADTDSNGEGDACAADIDGDGILNERDNCQYVYNVDQRDT	
Callithrix_jacchus	YDRDDVGDRCDNCPYNHNPDQADTDNNGEGDACAADIDGDGILNERDNCQYVYNVDQRDT	824
Equus_caballus	YDRDDVGDRCDNCPYNHNPDQADTDNNGEGDACAADIDGDGILNERDNCQYVYNVDQRDT	824
Pteropus_alecto	YDRDDVGDRCDNCPYNHNPDQADTDNNGEGDACAADIDGDGILNERDNCQYVYNVDQKDT	824
Bos_taurus	YDRDDVGDRCDNCPYNHNPDQADTDNNGEGDACAADIDGDGILNERDNCQYVYNVDQKDT	825
Mus_musculus	YDRDDVGDRCDNCPYNHNPDQADTDKNGEGDACAVDIDGDGILNERDNCQYVYNVDQRDT	824
Ornithorhynchus_anatinus	YDRDDVGDRCDNCPYSPNPDQADTDNNGEGDACAVDIDGDGIRNERDNCQYVYNVDQKDS	831
Latimeria_chalumnae	YDRDDVGDRCDNCPYNHNPDQTDTDANGEGDACAKDIDGDGIPNERDNCPYVYNVNQKDT	824
	790800810820830840	
	* ****:****:*:**: * *:** :** **.*:********	
Xenopus tropicalis	DKDGVGDQCDNCPLEHNPEQTDSDSDLIGDKCDNNQDIDEDGHQNNLDNCPYIPNANQAD	890
Rhinatrema bivittatum	DMDGVGDQCDNCPMEHNPEQTDSDSDLIGDKCDSNEDIDEDGHQNNLDNCPYIPNANQAD	889
Pavo muticus	DLDGVGDQCDNCPLEHNPDQEDTDSDRIGDECDNNQDIDEDGHQNNLDNCPYVPNANQAD	891
Pavo cristatus	DLDGVGDQCDNCPLEHNPDQEDTDSDRIGDECDNNQDIDEDGHQNNLDNCPYVPNANQAD	891
Gallus gallus	DLDGVGDQCDNCPLEHNPDQEDTDSDLIGDECDNNQDIDEDGHQNNLDNCPYVPNANQAD	889
Anas platyrhynchos	DLDGVGDQCDNCPLEHNPDQEDTDSDRIGDECDNNQDIDEDGHQNNLDNCPYVPNANQAD	892
Chelonia mydas	DLDGVGDQCDNCPMEHNPDQEDSDSDRIGDKCDNNQDIDEDGHQNNLDNCPYVPNANQAD	890
Homo sapiens	DMDGVGDQCDNCPLEHNPDQLDSDSDRIGDTCDNNQDIDEDGHQNNLDNCPYVPNANQAD	884
Pan troglodytes	DMDGVGDQCDNCPLEHNPDQLDSDSDRIGDTCDNNQDIDEDGHQNNLDNCPYVPNANQAD	884
Macaca_mulatta	DMDGVGDQCDNCPLEHNPDQLDSDSDRIGDTCDNNQDIDEDGHQNNLDNCPYVPNANQAD	884
Callithrix_jacchus	DMDGVGDQCDNCPLEHNPDQLDSDSDRIGDTCDNNQDIDEDGHQNNLDNCPYVPNANQAD	884
Equus_caballus	DMDGVGDQCDNCPLEHNPDQLDSDSDRIGDTCDNNQDIDEDGHQNNLDNCPYVPNANQAD	884
Pteropus_alecto	DMDGVGDQCDNCPLEHNPDQLDSDSDRIGDTCDNNQDIDEDGHQNNLDNCPYVPNANQAD	884
Bos_taurus	DMDGVGDQCDNCPLEHNPDQLDSDSDRIGDTCDNNQDIDEDGHQNNLDNCPYVPNANQAD	885
Mus_musculus	DMDGVGDQCDNCPLEHNPDQLDSDSDLIGDTCDNNQDIDEDGHQNNLDNCPYVPNANQAD	884
Ornithorhynchus_anatinus		891
Latimeria_chalumnae	DWDGVGDQCDNCPLENNPDQTDSDSDRVGDKCDSNQDIDEDGHQNNLDNCPYIPNANQAD	884
	850860870880890900	

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Xenopus tropicalis	HDKDGKGDACDHDDDNDGVPDDKDNCRLVPNPDQTDSNGDGRGDACQYDFDDDNIPDAED	950
Rhinatrema bivittatum	HDGDGKGDACDHDDDNDGIPDDKDNCRLVFNPNQTDTNGDGRGDICQDDFDQDKIPDIHD	949
Pavo_muticus	HDKDGKGDACDHDDDNDGIPDDKDNCRLVANPDQADSDGDGRGDACKDDFDQDSVPDIDD	951
Pavo_cristatus	HDKDGKGDACDHDDDNDGIPDDKDNCRLVANPDQADSDGDGRGDACKDDFDQDSVPDIDD	951
Gallus_gallus	HDKDGKGDACDHDDDNDGIPDDKDNCRLVANPDQADSDGDGRGDACKDDFDQDSVPDIDD	949
Anas_platyrhynchos	HDKDGKGDACDHDDDNDGIPDDKDNCRLVANPDQADSDGDGRGDACKDDFDQDSVPDIDD	952
Chelonia_mydas	HDKDGKGDACDHDDDNDGIPDDKDNCRLVANPDQTDSDGDGRGDACKDDFDQDNVPDIDD	950
Homo_sapiens	HDKDGKGDACDHDDDNDGIPDDKDNCRLVPNPDQKDSDGDGRGDACKDDFDHDSVPDIDD	944
Pan_troglodytes	HDKDGKGDACDHDDDNDGIPDDRDNCRLVPNPDQKDSDGDGRGDACKDDFDHDSVPDIDD	944
Macaca_mulatta	HDKDGKGDACDHDDDNDGIPDDRDNCRLVPNPDQKDSDGDGRGDACKDDFDHDNVPDIDD	944
Callithrix_jacchus	HDKDGKGDACDHDDDNDGIPDDRDNCRLVPNPDQKDSDGDGRGDACKDDFDHDSVPDIDD	944
Equus_caballus	HDKDGKGDACDHDDDNDGIPDDRDNCRLVPNPDQKDSDGDGRGDACKDDFDHDNVPDVDD HDKDGKGDACDHDDDNDGIPDDRDNCRLVPNPDQKDSDGDGRGDACKDDFDHDNVPDIDD	944 944
Pteropus_alecto Bos_taurus	HDKDGKGDACDHDDDNDGIPDDRDNCRLVPNPDQKDSDGDGRGDACKDDFDQDKVPDIDD	944
Mus musculus	HDKDGKGDACDHDDDNDGIPDDRDNCRLVPNPDQKDSDGDGRGDACKDDFDHDNVPDIDD	943
Ornithorhynchus anatinus		951
Latimeria chalumnae	HDKDGKGDACDHDDDNDGIPDDKDNCRLAFNPDQLDSDGDGRGDACKDDFDQDNVPDIYD	944
nacimel ia_charamae	910920930940950960	711
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Xenopus tropicalis	VCPENVEISTTDFRKFOMVPLDPKGTSQIDPNWVVRHQGKELVQTVNCDPGIAVGFDEFS	1010
Rhinatrema_bivittatum	VCPENVEISETDFRKFQMVPLDPKGTSQIDPNWVVRHQGKELVQTVNCDPGIAVGFDEFN	1009
Pavo_muticus	ICPENVEISETDFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNCDPGLAVGFDEFN	1011
Pavo_cristatus	ICPENVEISETDFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNCDPGLAVGFDEFN	1011
Gallus_gallus	ICPENVEISETDFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNCDPGLAVGFDEFN	1009
Anas_platyrhynchos	ICPENVDISETDFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNCDPGLAVGFDEFN	1012
Chelonia_mydas	ICPENVDISETDFRRFQMVPLDPKGTSQNDPNWVVRHQGKELVQTVNCDPGLAVGFDEFN	1010
Homo_sapiens	ICPENVDISETDFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNCDPGLAVGYDEFN	1004
Pan_troglodytes	ICPENVDISETDFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNCDPGLAVGYDEFN	1004
Macaca_mulatta	ICPENVDISETDFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNCDPGLAVGYDEFN	1004
Callithrix_jacchus	ICPENVDISETDFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNCDPGLAVGYDEFN	1004
Equus_caballus	ICPENVDISETDFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNCDPGLAIGYDEFN	1004
Pteropus_alecto	ICPENVDISETDFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNCDPGLAIGYDEFN	1004
Bos_taurus	ICPENVDISETDFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNCDPGLAVGYDEFN	1005 1004
Mus_musculus Ornithorhynchus anatinus	ICPENFDISETDFRQFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNCDPGLAVGYDEFN ICPENVDISETDFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNCDPGLAVGFDEFN	1011
Latimeria chalumnae	VCPENFEISETDFRRFQMVPLDPKGTSQIDPNWVVRHQGKELVQTVNCDPGIAVGYDEFN	1011
Dacimeria_charumnae	970980990100010101020	1004
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Xenopus_tropicalis	AVDF <mark>SGT</mark> FFINTERDDDYAGFVFGYQSSSRFYVVMWKQITQTYWDTTPTVAQGYSGLSIK	1070
Rhinatrema_bivittatum	SVDFSGTFFINTERDDDYAGFVFGYQSSSRFYVVMWKQITQTYWDTTPTKAQGYSGLSIK	1069
Pavo_muticus	AVDFSGTFFINTERDDDYAGFVFGYQSSSRFYVVMWKQITQSYWDSTPTKAQGYSGLSIK	1071
Pavo_cristatus	AVDFSGTFFINTERDDDYAGFVFGYQSSSRFYVVMWKQITQSYWDSTPTKAQGYSGLSIK	1071
Gallus_gallus	AVDFSGTFFVNTERDDDYAGFVFGYQSSSRFYVVMWKQITQSYWDSTPTKAQGYSGLSIK	1069
Anas_platyrhynchos	AVDFSGTFFINTERDDDYAGFVFGYQSSSRFYVVMWKQITQSYWDSTPTKAQGYSGLSIK	1072
Chelonia_mydas	AVDFSGTFFINTERDDDYAGFVFGYQSSSRFYVVMWKQITQSYWDSTPTKAQGYSGLSIK	1070
Homo_sapiens	AVDFSGTFFINTERDDDYAGFVFGYQSSSRFYVVMWKQVTQSYWDTNPTRAQGYSGLSVK	1064
Pan_troglodytes	AVDFSGTFFINTERDDDYAGFVFGYQSSSRFYVVMWKQVTQSYWDTNPTRAQGYSGLSVK	1064
Macaca_mulatta	AVDFSGTFFINTERDDDYAGFVFGYQSSSRFYVVMWKQVTQSYWDTNPTRAQGYSGLSVK	1064
Callithrix_jacchus	AVDESCTEET NTEEDDDYAGEVEGYQSSSREYVVMWKQVTQSYWDTNPTRAQGYSGLSVK	1064
Equus_caballus	AVDFSGTFFINTERDDDYAGFVFGYQSSSRFYVVMWKQVTQSYWDTNPTRAQGYSGLSVK AVDFSGTFFINTERDDDYAGFVFGYOSSSRFYVVMWKOITOSYWDVNPTRAOGYSGLSVK	1064
Pteropus_alecto Bos taurus	AVDFSGTFFINTERDDDYAGFVFGYQSSSRFYVVMWKQITQSYWDTNPTRAQGYSGLSVK AVDFSGTFFINTERDDDYAGFVFGYQSSSRFYVVMWKQVTQSYWDTNPTRAQGYSGLSVK	1064 1065
Mus musculus	AVDFSGTFFINTERDDDYAGFVFGYOSSSRFYVVMWKOVTOSYWDTNPTRAOGYSGLSVK	1063
Ornithorhynchus anatinus		1071
Latimeria chalumnae	AVDFSGTFFINTERDDDYAGFVFGYQSSSRFYVVMWKQITQTYWDTTPTKAQGYSGLSIK	1064
	103010401050106010701080	

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Xenopus tropicalis	VVNSTSGPGEHLRNALWHTGNTPGOVRTLWHDPHOIGWKDFTAYRWHLTHRPKTGFIRVV	1130
Rhinatrema bivittatum	VVNSTTGPGEHLRNALWHTGNTLGQVRTLWHDPRQTGWKDFTAYRWHLTHRPKTGFIRVV	1129
Pavo muticus	VVNSTTGPGEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGYIRVV	1131
Pavo cristatus	VVNSTTGPGEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGYIRVV	1131
Gallus_gallus	VVNSTTGPGEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGYIRVV	1129
Anas_platyrhynchos	VVNSTTGPGEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGYIRVV	1132
Chelonia_mydas	VVNSTTGPGEHLRNALWHTGNTAGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGYIRVI	1130
Homo_sapiens	VVNSTTGPGEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGFIRVV	1124
Pan_troglodytes	VVNSTTGPGEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGFIRVV	1124
Macaca_mulatta	VVNSTTGPGEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGFIRVV	1124
Callithrix_jacchus	VVNSTTGPGEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGFIRVV	1124
Equus_caballus	VVNSTTGPGEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGFIRVV	1124
Pteropus_alecto	VVNSTTGPGEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGFIRVV	1124
Bos_taurus	VV <mark>NSTTGPGEHLRN</mark> ALWH <mark>TGNTSGQVRT</mark> LWHDPRHI <mark>G</mark> WKDFTAYRWHLSHRPKTGFIRVV	1125
Mus_musculus	VVNSTTGPGEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGYIRVV	1124
Ornithorhynchus_anatinus	VVNSTTGPGEHLRNALWHTGNTTGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGYIRVV	1131
Latimeria_chalumnae	VVNSTTGPGEHLRNALWHTGHTAGQVRTLWHDPRHTGWKDFTAYRWHLTHRPKTGYIRVV	1124
	$\dots \dots 1090 \dots \dots 1100 \dots \dots 1110 \dots \dots 1120 \dots \dots 1130 \dots \dots 1140$	
	*:****:******************	
Xenopus_tropicalis	*:***:***: MYEGKKVMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECRDS 1176	
Xenopus_tropicalis Rhinatrema_bivittatum	• • • •	
	MYEGKKVMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECRDS 1176	
Rhinatrema_bivittatum	MYEGKKVMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECRDS 1176 MHEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMTFFSDLKYECRDS 1175	
Rhinatrema_bivittatum Pavo_muticus	MYEGKKVMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECRDS 1176 MHEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMTFFSDLKYECRDS 1175 MYEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECR 1175 MYEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECR 1175 MYEGKKIMADSGPIYDKTYAGGRLGLFDFSQEMVFFSDLKYECRDP 1175	
Rhinatrema_bivittatum Pavo_muticus Pavo_cristatus	MYEGKKVMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECRDS 1176 MHEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMTFFSDLKYECRDS 1175 MYEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECR 1175 MYEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECR 1175 MYEGKKIMADSGPIYDKTYAGGRLGLFDFSQEMVFFSDLKYECRDP 1175 MYEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECRDP 1178	
Rhinatrema_bivittatum Pavo_muticus Pavo_cristatus Gallus_gallus	MYEGKKVMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECRDS 1176 MHEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMTFFSDLKYECRDS 1175 MYEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECR 1175 MYEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECR 1175 MYEGKKIMADSGPIYDKTYAGGRLGLFDFSQEMVFFSDLKYECRDP 1175	
Rhinatrema_bivittatum Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos	MYEGKKVMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECRDS 1176 MHEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMTFFSDLKYECRDS 1175 MYEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECR 1175 MYEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECR 1175 MYEGKKIMADSGPIYDKTYAGGRLGLFDFSQEMVFFSDLKYECRDP 1175 MYEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECRDP 1178	
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