File: /home/ceglab2/Desktop/ajinkya/pavo/MS**Pate: TWetlpt**seb 16 12:09:25 2022 Page 1 of 6

	** *********** ******	
Xenopus tropicalis	MVDYHMTSGGAPPHMGQLGQDQRYMEQEEDWDRDLLLDPAWEK-QQRKTFTA	51
Rhinatrema bivittatum	-MDYHAANQPYQPGPTSDGQ-TLYMAQEDDWDRDLLLDPAWRKKQQRKTFTA	50
Gallus gallus	MVDYHSAGQPYPYGGNGPGPNGDYMAQEDDWDRDLLLDPAWEK-QQRKTFTA	51
Anas platyrhynchos	MVDYHSAAQPCPYPAAGPGAGPDGDYMAQEDDWDRDLLLDPAWEK-QQRKTFTA	53
Chelonia mydas	MVDYHAAGQPYQYGGNGPSSGGGGIGDYMAQEDDWDRDLLLDPAWEK-QQRKTFTA	55
Homo sapiens	MVDYHAANQSYQYGPSSAG-NGAGGGGSMGDYMAQEDDWDRDLLLDPAWEK-QQRKTFTA	58
Callithrix_jacchus	MVDYHAANQSYQYGPSSAG-NGAGGGGSMGDYMAQEDDWDRDLLLDPAWEK-QQRKTFTA	58
Pan troglodytes	MVDYHAANQSYQYGPSSAG-NGAGGGGSMGDYMAQEDDWDRDLLLDPAWEK-QQRKTFTA	58
Macaca mulatta	MVDYHAANQSYQYGPSSAG-NGAGGGGGSMGDYMAQEDDWDRDLLLDPAWEK-QQRKTFTA	58
Mus musculus	MVDYHAANQAYQYGPNSGGGNGAGGGGSMGDYMAQEDDWDRDLLLDPAWEK-QQRKTFTA	59
Pteropus alecto	MVDYHAANQSYQYGPSSAG-NGAGGGGGMGDYMAQEDDWDRDLLLDPAWEK-QQRKTFTA	58
Heterocephalus glaber	MVDYHAANQSYQYGPSSAG-NGAGGGGGMGDYMAQEDDWDRDLLLDPAWEK-QQRKTFTA	58
Equus caballus	MVDYHAANQSYQYGPSSGS-NGAGGGGGSMGDYMAQEDDWDRDLLLDPAWEK-QQRKTFTA	58
Ornithorhynchus anatinus		58
Pavo muticus	PQQTNDYMQPEEDWDRDLLLDPAWEK-QQRKTFTA	34
Pavo cristatus	PQQTNDYMQPEEDWDRDLLLDPAWEK-QQRKTFTA	34
Tavo_criscacus	1102030405060	31
	1	
	******************	
Xenopus tropicalis	WCNSHLRKAGTQIENIDEDFRDGLKLMLLLEVISGERLPKPERGKMRVHKINNVNKALDF	111
Rhinatrema bivittatum	WCNSHLRKAGTQIENIDEDFRDGLKLMLLLEVISGERLPKPERGKMRVHKINNVNKALDF	110
Gallus_gallus	WCNSHLRKAGTQIENIDEDFRDGLKLMLLLEVISGERLPKPERGKMRVHKINNVNKALDF	111
		113
Anas_platyrhynchos Chelonia mydas	WCNSHLRKAGTQIENIDEDFRDGLKLMLLLEVISGERLPKPERGKMRVHKINNVNKALDF WCNSHLRKAGTQIENIDEDFRDGLKLMLLLEVISGERLPKPERGKMRVHKINNVNKALDF	115
		118
Homo_sapiens	WCNSHLRKAGTQIENIDEDFRDGLKLMLLLEVISGERLPKPERGKMRVHKINNVNKALDF	
Callithrix_jacchus	WCNSHLRKAGTQIENIDEDFRDGLKLMLLLEVISGERLPKPERGKMRVHKINNVNKALDF	118
Pan_troglodytes	WCNSHLRKAGTQIENIDEDFRDGLKLMLLLEVISGERLPKPERGKMRVHKINNVNKALDF	118
Macaca_mulatta	WCNSHLRKAGTQIENIDEDFRDGLKLMLLLEVISGERLPKPERGKMRVHKINNVNKALDF	118
Mus_musculus	wcnshlrkagtqienidedfrdglklmlllevisgerl <mark>pkpergkmrvhkinnvnk</mark> aldf	119
Pteropus_alecto	WCNSHLRKAGTQIENIDEDFRDGLKLMLLLEVISGERLPKPERGKMRVHKINNVNKALDF	118
Heterocephalus_glaber	WCNSHLRKAGTQIENIDEDFRDGLKLMLLLEVISGERLPKPERGKMRVHKINNVNKALDF	118
Equus_caballus	WCNSHLRKAGTQIENIDEDFRDGLKLMLLLEVISGERLPKPERGKMRVHKINNVNKALDF	118
Ornithorhynchus_anatinus		118
Pavo_muticus	WCNSHLRKAGTQIENIEEDFRDGLKLMLLLEVISGERLAKPERGKMRVHKISNVNKALDF	94
Pavo_cristatus	WCNSHLRKAGTQIENIEEDFRDGLKLMLLLEVISGERLAKPERGKMRVHKISNVNKALDF	94
	708090100110120	
	*****************	
Xenopus_tropicalis	IA <mark>SKG</mark> VKLVSIGAEEIVDGNTKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTA	171
Rhinatrema_bivittatum	IA <mark>SKG</mark> VKLVSIGAEEIVDGNAKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTA	170
Gallus_gallus	IA <mark>SKG</mark> VNVVSIGAEEIV <mark>DGNAKMT</mark> LGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTA	171
Anas_platyrhynchos	ia <mark>skg</mark> v <mark>k</mark> lvsi <mark>gaeeivdgnak</mark> mtlgmiwtiilrfaiqdisveetsakeglllw <mark>cqrkt</mark> a	173
Chelonia_mydas	ia <mark>skg</mark> v <mark>k</mark> lvsi <mark>gaeeivdgntk</mark> mtlgmiwtiilrfaiqdisveetsakeglllw <mark>cqrkt</mark> a	175
Homo_sapiens	ia <mark>skg</mark> v <mark>k</mark> lvsi <mark>gaeeivdgnak</mark> mtlgmiwtiilrfaiqdisveetsakeglllw <mark>cqrkt</mark> a	178
Callithrix_jacchus	ia <mark>skgvk</mark> lvsi <mark>gaeeivdgnak</mark> mtl <mark>g</mark> miwtiilrfaiqdisveetsakeglllw <mark>cqrkt</mark> a	178
Pan_troglodytes	ia <mark>skgvk</mark> lvsi <mark>gaeeivdgnakmtligmiwtiilr</mark> fai <mark>qdisveetsakeg</mark> lllw <mark>cqrkt</mark> a	178
Macaca_mulatta	ia <mark>skgvk</mark> lvsi <mark>gaeeivdgnakmtligmiwtiilr</mark> fai <mark>qdisveetsakeg</mark> lllw <mark>cqrkt</mark> a	178
Mus_musculus	IA <mark>SKG</mark> VKLVSIGAEEIVDGNAKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTA	179
Pteropus_alecto	IA <mark>SKGVKLVSIGAEEIVDGNAKMTLG</mark> MIW <mark>TIILR</mark> FAIQDISVEETSAKEGLLLWCQRKTA	178
Heterocephalus_glaber	IASKGVKLVSIGAEEIVDGNAKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTA	178
Equus_caballus	IASKGVKLVSIGAEEIVDGNAKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTA	178
Ornithorhynchus anatinus		178
Pavo muticus	IASKGVKLVSIGAEEIVDGNVKMTLGMIWTIILRFAIODISVEETSAKEGLLLWCORKTA	154
Pavo cristatus	IA <mark>SKG</mark> VKLVSIGAEEIVDGNVKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTA	154
<del>_</del>	130140150160170180	

File: /home/ceglab2/Desktop/ajinkya/pavo/MS**PataCTWellpl**seb 16 12:09:25 2022 Page 2 of 6

	******************	
Xenopus tropicalis	PYKNVNVONFHISWKDGLAFNALIHRHRPELIEYDKLRKDDPVTNLNNAFEVAERYLDIP	231
Rhinatrema bivittatum	PYKNVNVONFHISWKDGLAFNALIHRHRPELIEYDKLRKDDPITNLNNAFEVAEKYLDIP	230
Gallus_gallus	PYKNVNVONFHISWKDGLAFNALIHRHRPELIEYDKLRKDDPVTNLNNAFEVAEKYLDIP	231
Anas_platyrhynchos	PYKNVNVONFHISWKDGLAFNALIHRHRPELIEYDKLRKDDPVTNLNNAFEVAEKYLDIP	233
Chelonia_mydas	PYKNVNVONFHISWKDGLAFNALIHRHRPELIEYDKLRKDDPVTNLNNAFEVAEKYLDIP	235
Homo_sapiens	PYKNYNYONFHISWKDGLAFNALIHRHRPELIEYDKLRKDDPYTNLNNAFEVAEKYLDIP	238
Callithrix_jacchus	PYKNVNVONFHISWKDGLAFNALIHRHRPELIEYDKLRKDDPVTNLNNAFEVAEKYLDIP	238
Pan_troglodytes	PYKNVNVONFHISWKDGLAFNALIHRHRPELIEYDKLRKDDPVTNLNNAFEVAEKYLDIP	238
Macaca mulatta	PYKNVNVONFHISWKDGLAFNALIHRHRPELIEYDKLRKDDPVTNLNNAFEVAEKYLDIP	238
Mus musculus	PYKNYNYONFHISWKDGLAFNALIHRHRPELIEYDKLRKDDPVTNLNNAFEVAEKYLDIP	239
Pteropus_alecto	PYKNVNVONFHISWKDGLAFNALIHRHRPELIEYDKLRKDDPVTNLNNAFEVAEKYLDIP	238
Heterocephalus glaber	PYKNVNVONFHISWKDGLAFNALIHRHRPELIEYDKLRKDDPVTNLNNAFEVAEKYLDIP	238
Equus caballus	PYKNYNYONFHISWKDGLAFNALIHRHRPELIEYDKLRKDDPVTNLNNAFEVAEKYLDIP	238
Ornithorhynchus_anatinus	PYKNVNVONFHISWKDGLAFNALIHRHRPELIEYDKLRKDDPVTNLNNAFEVAEKYLDIP	238
Pavo_muticus	PYKNVNIONFHISWKDGLGFCALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIP	214
Pavo_cristatus	PYKNVNIQNFHISWKDGLGFCALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIP	214
Pavo_Clistatus	190200210220230240	217
	210220240	
	************************************	
Xenopus tropicalis	KMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAOKAETAANRICKVLAVNOENEHLMEDY	291
Rhinatrema bivittatum	KMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAOKAETAANRICKVLAVNOENEHLMEDY	290
Gallus_gallus	KMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEHLMEDY	291
Anas platyrhynchos	KMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEHLMEDY	293
Chelonia_mydas	KMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEHLMEDY	295
Homo_sapiens	KMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEHLMEDY	298
Callithrix_jacchus	KMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEHLMEDY	298
Pan_troglodytes	KMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEHLMEDY	298
Macaca mulatta	KMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNOENEHLMEDY	298
Mus musculus	KMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAOKAETAANRICKVLAVNOENEHLMEDY	299
Mus_musculus Pteropus_alecto	KMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEHLMEDY	299
Heterocephalus_glaber	KMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNOENEHLMEDY	298
Equus_caballus	KMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNOENEHLMEDY	298
Ornithorhynchus_anatinus	KMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEHLMEDY	298
Pavo muticus	KMLDAEDIVGTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDY	274
Pavo_muticus Pavo_cristatus	KMLDAEDIVGTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDI KMLDAEDIVGTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDY	274
Pavo_Clistatus	250260270280290300	4/4
	250200270200290300	
	*:************************************	
Xenopus_tropicalis	EKLASDLLEWIRRTIPWLENRVPEKTMHDMOOKLEDFRDYRRVHKPPKVOEKCOLEINFN	351
Rhinatrema bivittatum	EKLASDILEWIRRTIPWLENRVPEKTMQEMQQKLEDFRDYRRVHKPPKVQEKCQLEINFN	350
Gallus gallus	EKLASDILLEWIRKTIPWLEDRSPQKTIQEMQQKLEDFRDYRRVHKPPKVQEKCQLEINFN	351
Anas_platyrhynchos	EKLASDILEWIRRTIPWLEDRSPQKTIQEMQQKLEDFRDYRRVHKPPKVQEKCQLEINFN	353
Chelonia_mydas	EKLASDILLEWIKRTIPWIEDRVPQKTIQEMQQKLEDFRDYRRVHKPPKVQEKCQLEINFN	355
		358
Homo_sapiens Callithrix jacchus	EKLASDLLEWIRRTIPWLEDRVPQKTIQEMQQKLEDFRDYRRVHKPPKVQEKCQLEINFN EKLASDLLEWIRRTIPWLEDRVPQKTIQEMQQKLEDFRDYRRVHKPPKVQEKCQLEINFN	358
Pan troglodytes	EKLASDILLEWIRKTIPWIEDRVPQKTIQEMQQKLEDFRDYRRVHKPPKVQEKCQLEINFN	358
Macaca mulatta	EKLASDLLEWIRKTIPWLEDRVPOKTIQEMOOKLEDFRDYRRVHKPPKVQEKCQLEINFN	358
Mus musculus	ERLASDILEWIRRTIPWIEDRVPQKTIQEMQQKLEDFRDYRRVHKPPKVQEKCQLEINFN ERLASDILEWIRRTIPWIEDRVPQKTIQEMQQKLEDFRDYRRVHKPPKVQEKCQLEINFN	359
Mus_musculus Pteropus_alecto	ERLASDILEWIRKTIPWIEDRVPQKTIQEMQQKLEDFRDYRRVHKPPKVQEKCQLEINFN ERLASDILEWIRKTIPWIEDRVPQKTIQEMQQKLEDFRDYRRVHKPPKVQEKCQLEINFN	358
Heterocephalus glaber	ERLASDILEWIRRTIPWIEDRVPQRTIQEMQQKLEDFRDYRRVHKPPKVQEKCQLEINFN ERLASDILEWIRRTIPWIEDRVPQRTIQEMQQKLEDFRDYRRVHKPPKVQEKCQLEINFN	358
Equus_caballus	ERLASDILLEWIRKTIPWIEDRVPQKTIQEMQQKLEDFRDYRRVHKPPKVQEKCQLEINFN ERLASDILEWIRKTIPWIEDRVPQKTIQEMQQKLEDFRDYRRVHKPPKVQEKCQLEINFN	358
Ornithorhynchus_anatinus	EKLASDILLEWIRRTVPWLEDRNPQKTIQQMQQMLEDFRDYRRLHKPPKVQEKCQLEINFN	358
Pavo muticus	EKLASDILEWIRRTIPWLENRAPENTMOAMOOKLEDFRDYRRLHKPPKVOEKCOLEINFN	334
Pavo_muticus Pavo_cristatus	EKLASDILEWIRRTIPWIENRAPENTMQAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFN EKLASDILEWIRRTIPWIENRAPENTMQAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFN	334
ravo_CIIscacus	310320330340350360	334

File: /home/ceglab2/Desktop/ajinkya/pavo/MS**Pate: TWetlpt**eb 16 12:09:25 2022 Page 3 of 6

	****** **** * * * * * * * * * * * * * *	444
Xenopus_tropicalis	TLQTKLRLSNRPAFMPSEGKMVSDINNGWQHLEQAEKGFEEWLLNAIRRLERLDHLAEKF	411
Rhinatrema_bivittatum	TLQTKLRLSNRPAFMPSEGKMISDINGEWQHLEQAEKGCEEWMLNEIRRLERLYHLAGKF	410
Gallus_gallus	TLQTKLRLSNRPAFMPSEGRMVSDINTGWQHLEQAEKGYEEWLLNEIRRLEPLDHLAEKF	411
Anas_platyrhynchos	TLQTKLRLSNRPAFMPSEGRMVADINNGWQHLEQAEKGYEEWLLNEIRRLERLDHLAEKF	413
Chelonia_mydas	TLQTKLRLSNRPAFMPSEGKMVSDINNGWQHLEQAEKGYEEWLLNEIRRLERLDHLAEKF	415
Homo_sapiens	TLQTKLRLSNRPAFMPSEGKMVSDINNGWQHLEQAEKGYEEWLLNEIRRLERLDHLAEKF	418
Callithrix_jacchus	TLQTKLRLSNRPAFMPSEGKMVSDINNGWQHLEQAEKGYEEWLLNEIRRLERLDHLAEKF	418
Pan_troglodytes	TLQTKLRLSNRPAFMPSEGKMVSDINNGWQHLEQAEKGYEEWLLNEIRRLERLDHLAEKF	418
Macaca_mulatta	TLQTKLRLSNRPAFMPSEGKMVSDINNGWQHLEQAEKGYEEWLLNEIRRLERLDHLAEKF	418
Mus_musculus	TLQTKLRLSNRPAFMPSEGRMVSDINNGWQHLEQAEKGYEEWLLNEIRRLERLDHLAEKF	419
Pteropus_alecto	TLQTKLRLSNRPAFMPSEGRMVSDINNCWQHLEQAEKGYEEWLLNEIRRLERLDHLAEKF	418
Heterocephalus_glaber	TLQTKLRLSNRPAFMPSEGRMVSDINNGWQHLEQAEKGYEEWLLNEIRRLERLDHLAEKF	418
Equus_caballus	TLQTKLRLSNRPAFMPSEGKMVSDINNGWQHLEQAEKGYEEWLLNEIRRLERLDHLAEKF	418
Ornithorhynchus_anatinus	TLQTKLRLSNRPAFMPSEGKMVSDINNGWQHLEQAEKGYEEWLLNEIRRLERLDHLAEKF	418
Pavo_muticus	TLQTKLRLSNRPAFMPSEGKMVSDINNAWGGLEQAEKGYEEWLLNEIRRLERLDHLAEKF	394
Pavo_cristatus	TLQTKLRLSNRPAFMPSEGKMVSDINNAWGGLEQAEKGYEEWLLNEIRRLERLDHLAEKF	394
	370380390400410420	
	*** **************	
Venenus tueniselis		471
Xenopus_tropicalis Rhinatrema bivittatum	RQKALIHEAWTEGKEAMLKQKDYESATLADIKALIRKHEAFESDLAAHQDRVEQIAAIAQ SOKAAIHESWSDGKEALLKOKDYETATLSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQ	471 470
	ROKASIHEAWTEGKEAMLKOKDYETATLSDIKALIRKHEAFESDLAAHODRVEQIAAIAO	470 471
Gallus_gallus Anas platyrhynchos	ROKASIHEAWTEGKEAMLKOKDYESATLSDIKALIRKHEAFESDLAAHODRVEQIAAIAO	473
Chelonia mydas	ROKASIHESWIEGKEAMLROKDIESAILSDIKALIRKHEAFESDLAAHODRVEQIAAIAQ ROKASIHESWIEGKEAMLROKDYETAILSDIKALIRKHEAFESDLAAHODRVEQIAAIAQ	475
= <b>-</b>	ROKASIHEAWTDGKEAMLKHRDYETATLSDIKALIRKHEAFESDLAAHODRVEQIAAIAO	478
Homo_sapiens Callithrix_jacchus	RQKASIHEAWIDGKEAMLKHRDIETAILSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQ RQKASIHEAWIDGKEAMLKHRDYETAILSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQ	478
Pan troglodytes	ROKASIHEAWIDGKEAMLKHRDIETAILSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQ ROKASIHEAWIDGKEAMLKHRDYETAILSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQ	478
Macaca mulatta	ROKASIHEAWIDGKEAMLKHRDYETAILSDIKALIRKHEAFESDLAAHODRVEOIAAIAO	478
<del>_</del>		478
Mus_musculus Pteropus alecto	RQKASIHEAWTDGKEAMLKQRDYETATLSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQ ROKASIHEAWTDGKEAMLKHRDYETATLSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQ	479
<del>-</del> -	RQKASIHEAWIDGKEAMLKHRDIETAILSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQ RQKASIHEAWIDGKEAMLKHRDYETAILSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQ	478
Heterocephalus_glaber Equus_caballus	ROKASIHEAWIDGKEAMLKORDYETATLSDIKALIRKHEAFESDLAAHODRVEQIAAIAQ	478
Ornithorhynchus anatinus	ROKASIHEAWTOGKEAMLKOKDYETATLSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQ	478
Pavo muticus	ROKASIHESWIDGKEAMLQQKDYETAILSEIKALLKKHEAFESDLAAHQDRVEQIAAIAQ	454
Pavo_muticus Pavo_cristatus	ROKASIHESWIDGKEAMLQQKDYETAILSEIKALLKKHEAFESDLAAHQDRVEQIAAIAQ	454
Pavo_Clistatus	430440450460470480	131
	*******	
Xenopus_tropicalis	ELNELDYYDSPSVNARCQKICDQWDLLGSLTHTRREALEVTEKQLEAIDQLYLEYAKRAA	531
Rhinatrema bivittatum	ELNELDYYDSPSVNARCOKICDOWDVLGSLTHTRREALEOTEKOLETIDOLYLEYAKRAA	530
Gallus gallus	ELNELDYYDSPSVNARCOKICDOWDVLGSLTHSRREALEKTEKOLETIDELHLEYAKRAA	531
Anas platyrhynchos	ELNELDYYDSPSVNARCQKICDQWDVLGSLTHSRREALEKTEKQLETIDELHLEYAKRAA	533
Chelonia mydas	ELNELDYYDSPSVNARCQKICDQWDALGSLTHSRREALEKTEKQLETIDQLHLEYAKRAA	535
Homo_sapiens	ELNELDYYDSHNVNTRCQKICDQWDALGSLTHSRREALEKTEKQLEAIDQLHLEYAKRAA	538
Callithrix jacchus	ELNELDYYDSHNVNTRCOKICDOWDALGSLTHSRREALEKTEKOLEAIDOLHLEYAKRAA	538
Pan troglodytes	ELNELDYYDSHNVNTRCOKICDOWDALGSLTHSRREALEKTEKOLEAIDOLHLEYAKRAA	538
Macaca mulatta	ELNELDYYDSHNVNTRCOKICDOWDALGSLTHSRREALEKTEKOLEAIDOLHLEYAKRAA	538
Mus musculus	ELNELDYYDSHNVNTRCOKICDOWDNLGSLTHSRREALEKTEKOLETIDOLHLEYAKRAA	539
Pteropus alecto	ELNELDYYDSHNVNTRCOKICDOWDALGSLTHSRREALEKTEKOLETIDOLHLEYAKRAA	538
Heterocephalus glaber	ELNELDYYDSHNVNTRCOKICDOWDALGNLTHSRREALEKTEKOLETIDOLHLEYAKRAA	538
Equus caballus	ELNELDYYDSHNVNTRCQKICDQWDALGSLTHSRREALEKTEKQLETIDQLHLEYAKRAA	538
Ornithorhynchus anatinus		538
Pavo muticus	ELNELDYYDSPSVNARCQKICDQWDNLGALTQKRREALERTEKLLETIDQLYLEYAKRAA	514
Pavo cristatus	ELNELDYYDSPSVNARCQKICDQWDNLGALTQKRREALERTEKLLETIDQLYLEYAKRAA	514
_	490500510520530540	

File: /home/ceglab2/Desktop/ajinkya/pavo/MS**PateCTWellpl**seb 16 12:09:25 2022 Page 4 of 6

	****** ***** ****** ****** *** *** *** ****	
		<b>501</b>
Xenopus_tropicalis	PFNNWMEGAMEDLQDMFIVHTIEEIEGLIAAHEQFKSTLPDADREREAILGIQNEAQKIA	591
Rhinatrema_bivittatum	PFNNWMEGAMEDLQDMFIVHTIEEIEGLMAAHEQFKFTLPDANKEREAILGIQNEAQKIA	590
Gallus_gallus	PFNNWMESAMEDLQDMFIVHTIEEIEGLIAAHDQFKATLPDADREREAILGIQREAQRIA	591
Anas_platyrhynchos	PFNNWMESAMEDLODMFIVHTIEEIEGLIAAHDOFKSTLPDADKEREAILGIQREAORIA PFNNWMESAMEDLODMFIVHTIEEIEGLIAAHAOFKSTLPDADKEREAILGIONEAORIA	593 595
Chelonia_mydas Homo sapiens	PFNNWMESAMEDLODMFIVHTIEEIEGLIAAHAQFKSTLPDADREREAILAIHKEAORIA PFNNWMESAMEDLODMFIVHTIEEIEGLISAHDOFKSTLPDADREREAILAIHKEAORIA	595 598
_ <b>-</b>		598
Callithrix_jacchus	PFNNWMESAMEDLODMFIVHTIEEIEGLISAHDOFKSTLPDADREREAILAIHKEAORIA PFNNWMESAMEDLODMFIVHTIEEIEGLISAHDOFKSTLPDADREREAILAIHKEAORIA	598 598
Pan_troglodytes	PFNNWMESAMEDLQDMFIVHTIEEIEGLISAHDQFKSTLPDADREREAILAIHKEAQRIA PFNNWMESAMEDLQDMFIVHTIEEIEGLISAHDQFKSTLPDADREREAILAIHKEAQRIA	598
Macaca_mulatta Mus_musculus	PFNNWMESAMEDLODMFIVHTIEEIEGLISAHDOFKSTLPDADREREAILAIHKEAORIA	599
Pteropus alecto	PFNNWMESAMEDLQDMFIVHTIEEIEGLISAHDQFKSTLPDADREREAILAIHKEAQRIA PFNNWMESAMEDLQDMFIVHTIEEIEGLISAHDQFKSTLPDADREREAILAIHKEAQRIA	598
Heterocephalus_glaber	PFNNWMESAMEDLQDMFIVHTIEEIEGLISAHDQFKSTLPDADREREAILAIHKEAQRIA	598
Equus_caballus	PFNNWMESAMEDLODMFIVHTIEEIEGLISAHDOFKSTLPDADRERDAILAIHKEAORIA	598
Ornithorhynchus anatinus		598
Pavo muticus	PFNNWMEGAMEDLQDMFIVHTIEEIGGLITAHDQFKSTLPDADKEKEAILDIQKEAQKIA PFNNWMEGAMEDLQDTFIVHTIEEIQGLTTAHEQFKATLPDADKERQAILGIHNEVSKIV	574
Pavo_cristatus	PFNNWMEGAMEDLQDTFIVHTIEEIQGLTTAHEQFKATLPDADKERQAILGIHNEVSKIV	574
Pavo_CIIstatus	550560570580590600	3/4
	300	
	: ::: ****::** **.**** ** ** *: :** **:** **. *	
Xenopus tropicalis	DYSHIKLASGNPYTTVTPQIINSKWEKVQQLVPKRDGALKGEHDKQQSNEHLRLQFASLA	651
Rhinatrema bivittatum	DYNHIKLAVGNPYTSVTPQIINSKWEKVQQLVPKRDNALKGEQNKQQSNERLRLQFANQA	650
Gallus_gallus	DLHSIKLSGNNPYTSVTPQVINSKWERVQQLVPTRDRALQDEQSRQQCNERLRRQFAGQA	651
Anas platyrhynchos	DFNSIKLGGNNPYTSVTPQIINSKWERVQQLVPKRDHALLDEQSKQQSNEHLRRQFASQA	653
Chelonia mydas	EYNNIKLPGNNPYTSVTPQIINSKWERVQQLVPKRDHALQDEQSKQQSNEHLRRQFASQA	655
Homo sapiens	ESNHIKLSGSNPYTTVTPQIINSKWEKVQQLVPKRDHALLEEQSKQQSNEHLRRQFASQA	658
Callithrix_jacchus	ESNHIKLSGSNPYTTVTPQIINSKWEKVQQLVPKRDHALLEEQSKQQSNEHLRRQFASQA	658
Pan troglodytes	ESNHIKLSGSNPYTTVTPQIINSKWEKVQQLVPKRDHALLEEQSKQQSNEHLRRQFASQA	658
Macaca mulatta	ESNHIKLSGSNPYTTVTPQIINSKWEKVQQLVPKRDHALLEEQSKQQSNEHLRRQFASQA	658
Mus_musculus	ESNHIKLSGSNPYTTVTPQIINSKWEKVQQLVPKRDHALLEEQSKQQSNEHLRRQFASQA	659
Pteropus_alecto	ESNHIKLSGSNPYTTVTPQIINSKWEKVQQLVPKRDHALLEEQSKQQSNEHLRRQFASQA	658
Heterocephalus glaber	ESNHIKLSASNPYTTVTPQIINSKWEKVQQLVPKRDHALMEEQSKQQSNEHLRRQFASQA	658
Equus caballus	ESNHIKLSGSNPYTTVTPQIINSKWEKVQQLVPKRDQALLEEQSKQQSNERLRRQFASQA	658
Ornithorhynchus anatinus		658
Pavo muticus	QTYHVNMAGTNPYTTITPQEINGKWEHVRQLVPRRDQALMEEHARQQQNERLRKQFGAQA	634
Pavo cristatus	QTYHVNMAGTNPYTTITPQEINGKWEHVRQLVPRRDQALMEEHARQQQNERLRKQFGAQA	634
	610620630640650660	
	*::.**:::******************************	
Xenopus_tropicalis	NVV <mark>GP</mark> WIQAKMEEI <mark>GR</mark> IAIELH <mark>GTLEDQMTHLKQYEQS</mark> VINYKPNIDKLEQQHQLIQEAL	711
Rhinatrema_bivittatum	NIVAPWIHTKMEEIGRIAIEMNGTLEDQLNHLKQYEKSIINYKPNIDKLEQEHQLIQEAL	710
Gallus_gallus	NIVGPWMQTKMEEIGRISIEMHGTLEDQLQHLKHYEQSIVDYKPNLELLEHEHQLVEEAL	711
Anas_platyrhynchos	NIVGPWIQTKMEEIGRISIEMNGTLEDQLNHLKQYEQSIVDYKPNIDLLEQQHQLIQEAL	713
Chelonia_mydas	NIVGPWIQTKMEEIGRISIEMNGTLEDQLNHLKQYEQSIVDYKPNIDLLEQQHQLIQEAL	715
Homo_sapiens	NVV <mark>GPWIQTKMEEIGRISIEMNGTLEDQLSHLKQYERSIVDYKPNLDLLEQQHQLIQE</mark> AL	718
Callithrix_jacchus	NVV <mark>GPWIQTKMEEIGRISIEMNGTLEDQ</mark> LSHL <mark>KQYERSIVDYKPNLDLLEQQHQLIQE</mark> AL	718
Pan_troglodytes	NVV <mark>GPWIQTKMEEIGRISIEMNGTLEDQ</mark> LSHLKQYERSIVDYKPNLDLLEQQHQLIQEAL	718
Macaca_mulatta	NVV <mark>GPWIQTKMEEIGRISIEMNGTLEDQ</mark> LSHL <mark>KQYERSIVDYKPNLDLLEQQHQLIQE</mark> AL	718
Mus_musculus	NMVGPWIQTKMEEIGRISIEMNGTLEDQLSHLKQYERSIVDYKPSLDLLEQQHQLIQEAL	719
Pteropus_alecto	NIVGPWIQTKMEEIGRISIEMNGTLEDQLSHLKQYERSIVDYKPNLDLLEQQHQLIQEAL	718
Heterocephalus_glaber	NVV <mark>GPWIQTKMEEIGRISIEMNGTLEDQ</mark> LNHL <mark>KQYERSIVDYKPNLDLLEQQHQLIQE</mark> AL	718
Equus_caballus	NIVGPWIQTKMEEIGRISIEMNGTLEDQLSHLKQYERSIVDYKPNLDLLEQQHQLIQEAL	718
Ornithorhynchus_anatinus		718
Pavo_muticus	NVIGPWIQTKMEEIGRISIEMHGTLEDQLNHLRQYEKSIVNYKPKIDQLEGDHQQIQEAL	694
Pavo_cristatus	NVIGPWIQTKMEEIGRISIEMHGTLEDQLNHLRQYEKSIVNYKPKIDQLEGDHQQIQEAL	694
	670680690700710720	

File: /home/ceglab2/Desktop/ajinkya/pavo/MS**P**ataCTVedIpseb 16 12:09:25 2022 Page 5 of 6

	******************	
Xenopus tropicalis	IFDNKHTNYTMEHIRVGWEHLLTTIARTSNEVENQILTRDAKGISQEQMHEYRASFNHFD	771
Rhinatrema bivittatum	IFDNRHTNYTMEHIRVGWEHLLTTTARTINEIDNQILTRDAKGISQEQMHEFRASFNHFD	770
Gallus_gallus	IFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMQEFRASFNHFD	771
Anas_platyrhynchos	IFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMQEFRASFNHFD	773
Chelonia mydas	IFDNKHTNYTMEHIRVGWEOLLTTIARTINEVENOILTRDAKGISOEOMOEFRASFNHFD	775
Homo_sapiens	IFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMQEFRASFNHFD	778
Callithrix_jacchus	IFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMQEFRASFNHFD	778
Pan_troglodytes	IFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMQEFRASFNHFD	778
Macaca mulatta	IFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMQEFRASFNHFD	778
Mus musculus	IFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMQEFRASFNHFD	779
Pteropus_alecto	IFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMQEFRASFNHFD	778
Heterocephalus glaber	IFDNKHTNYTMEHIRVGWEQLLTTIARTINEIENQILTRDAKGISQEQMQEFRASFNHFD	778
Equus_caballus	IFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMQEFRASFNHFD	778
	IFDNKHTNFTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMQEFRASFNHFD	778
Ornithorhynchus_anatinus	IFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMQEFRASFNHFD	778 754
Pavo_muticus		754 754
Pavo_cristatus	IFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMNEFRASFNHFD	/54
	730740750760770780	
	: *::.::*:* *** **:	
Xenopus tropicalis	RDHTGALGPEFKACLISLGYDVENDRQKRIGA	804
Rhinatrema bivittatum	KDHTGALGPEEFKACLISLGYDVENDRO	798
Gallus_gallus	KDHCGALGPEEFKACLISLGYDVENDRO	799
Anas_platyrhynchos	KDHGGALGPEEFKACLISLGYDVENDROKRTGS	806
Chelonia_mydas	KDHGGTLGPEEFKACLISLGYDVENDRQ	803
Homo_sapiens	KDHGGALGPEEFKACLISLGYDVE	802
Callithrix_jacchus	KKQTGSMDSDDFRALLISTGYSL	801
Pan_troglodytes	KDHGGALGPEEFKACLISLGYDVENDRQKQTGSMDSDDFRALLISTGYSL	828
Macaca_mulatta	KDHGGALGPEEFKACLISLGYDVENDRQKQTGSMDSDDFRALLISTGYSL	828
Mus_musculus	KDHGGALGPEEFKACLISLGYDVENDRQ	807
Pteropus_alecto	KDHGGALGPEEFKACLISLGYDVENDRQKQTGS	811
Heterocephalus_glaber	KDHGGALGPEEFKACLISLGYDVENDRQKQTGS	811
Equus_caballus	KDHGGALGPEEFKACLISLGYDVENDRQKQTGS	811
	KDHCGALGPEEFKACLISLGYDVENDRQKQTGS	811
Pavo_muticus	RDHS <mark>GTLGPEE</mark> FKACLI <mark>S</mark> LGYDIGNDAQ	782
Pavo_cristatus	RDHS <mark>GTLGPEEFKACLIS</mark> LGYDIGNDAQ	782
	790800810820830840	
	* * * * * * * * * * * * * * * * * * * *	
Xenopus tropicalis	LDADDFRALLISTGYSLGDAEFNRIMAIVDPNNTGMVTFQAFIDFMSRETTDTDTADQVI	864
Rhinatrema bivittatum	GDAEFHRIMGIVDPNNTGIVTFQAFIDFMSRETTDTDTADQVI	841
Gallus gallus	GDAEFNRIMSLVDPNGSGSVTFQAFIDFMSRETTDTDTADQVI	842
Anas_platyrhynchos	TDADDFRALLISAGCSLGDAEFNRIMSLVDPNGSGSVTFQAFIDFMSRETTDTDTADQVI	866
Chelonia_mydas	GDAEFNRIMSVVDPNNSGIVTFQAFIDFMSRETTDTDTADQVI	846
Homo_sapiens	NDRQGEAEFNRIMSLVDPNHSGLVTFQAFIDFMSRETTDTDTADQVI	849
Callithrix jacchus	GDAEFNRIMSLVDPNHSGLVTFQAFIDFMSRETTDTDTADQVI	844
Pan troglodytes	GEAEFNRIMSLVDPNHSGLVTFQAFIDFMSRETTDTDTADQVI	871
Macaca mulatta	GEAEFNRIMSLVDPNHSGLVTFQAFIDFMSRETTDTDTADQVI	871
Mus musculus	GDAEFNRIMSVVDPNHSGLVTFQAFIDFMSRETTDTDTADQVI	850
Pteropus alecto	MDSDDFRALLISTGYSLGDAEFNRIMSVVDPNHSGLVTFQAFIDFMSRETTDTDTADQVI	871
Heterocephalus glaber	MDSDDFRALLISTGYSLGDAEFNRIMSVVDPNHSGLVTFOAFIDFMSRETTDTDTADOVI	871
Equus caballus	MDSDDFRALLISTGYSLGDAEFNRIMSMVDPNHSGLVTFQAFIDFMSRETTDTDTADQVI	871
Ornithorhynchus anatinus		871
Pavo muticus	GEAEFARIMSIVDPNRMGVVTFQAFIDFMSRETADTDTADQVM	825
Pavo_cristatus	GEAEFARIMSIVDPNRMGVVTFQAFIDFMSRETADTDTADQVM	825
_	850860870880890900	

# File: /home/ceglab2/Desktop/ajinkya/pavo/MS**P**ataCTVedIpseb 16 12:09:25 2022 Page 6 of 6

	*****	*:**. *****	
Xenopus_tropicalis	ASFKVLAGDK		886
Rhinatrema_bivittatum	S <mark>SFKVLAGDK</mark>		863
Gallus_gallus	ASFKVLAGDK		864
Anas_platyrhynchos	ASFKVLAGDK		888
Chelonia_mydas	ASFKVLAGDK		868
Homo_sapiens	ASFKVLAGDK		871
Callithrix_jacchus	ASFKVLAGDKVRPHEAHGGWQEGSLHREGLREPVCGWGWLRV		904
Pan_troglodytes	ASFKVLAGDK		893
Macaca_mulatta	ASFKVLAGDK		893
Mus_musculus	ASFKVLAGDK		872
Pteropus_alecto	ASFKVLAGDK		893
<pre>Heterocephalus_glaber</pre>	ASFKVLAGDK		893
Equus_caballus	ASFKVLAGDK		893
Ornithorhynchus_anatinus	ASFKVLAGDK	<mark>N</mark> FI <mark>T</mark> AEELRREL	893
Pavo_muticus	ASFKILAGDK		847
Pavo_cristatus	ASFKILAGDK	<mark>NYIT</mark> VD <mark>ELRRE</mark> L	847
	910920930940	950960	
	**:**********		
Xenopus_tropicalis	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL	926	
Rhinatrema_bivittatum	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL	903	
	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL		
Rhinatrema_bivittatum	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL	903 904 928	
Rhinatrema_bivittatum Gallus_gallus Anas_platyrhynchos Chelonia_mydas	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL	903 904 928 908	
Rhinatrema_bivittatum Gallus_gallus Anas_platyrhynchos	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL	903 904 928	
Rhinatrema_bivittatum Gallus_gallus Anas_platyrhynchos Chelonia_mydas	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL	903 904 928 908	
Rhinatrema_bivittatum Gallus_gallus Anas_platyrhynchos Chelonia_mydas Homo_sapiens	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL	903 904 928 908 911	
Rhinatrema_bivittatum Gallus_gallus Anas_platyrhynchos Chelonia_mydas Homo_sapiens Callithrix_jacchus	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL	903 904 928 908 911 944	
Rhinatrema_bivittatum Gallus_gallus Anas_platyrhynchos Chelonia_mydas Homo_sapiens Callithrix_jacchus Pan_troglodytes	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL	903 904 928 908 911 944 933	
Rhinatrema_bivittatum Gallus_gallus Anas_platyrhynchos Chelonia_mydas Homo_sapiens Callithrix_jacchus Pan_troglodytes Macaca_mulatta	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL	903 904 928 908 911 944 933	
Rhinatrema_bivittatum Gallus_gallus Anas_platyrhynchos Chelonia_mydas Homo_sapiens Callithrix_jacchus Pan_troglodytes Macaca_mulatta Mus_musculus	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAAPGALDYKSFSTALYGESDL	903 904 928 908 911 944 933 933	
Rhinatrema_bivittatum Gallus_gallus Anas_platyrhynchos Chelonia_mydas Homo_sapiens Callithrix_jacchus Pan_troglodytes Macaca_mulatta Mus_musculus Pteropus_alecto	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAAPGALDYKSFSTALYGESDL	903 904 928 908 911 944 933 933 912	
Rhinatrema_bivittatum Gallus_gallus Anas_platyrhynchos Chelonia_mydas Homo_sapiens Callithrix_jacchus Pan_troglodytes Macaca_mulatta Mus_musculus Pteropus_alecto Heterocephalus_glaber Equus_caballus	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDTVPGALDYKSFSTALYGESDL	903 904 928 908 911 944 933 933 912 933	
Rhinatrema_bivittatum Gallus_gallus Anas_platyrhynchos Chelonia_mydas Homo_sapiens Callithrix_jacchus Pan_troglodytes Macaca_mulatta Mus_musculus Pteropus_alecto Heterocephalus_glaber Equus_caballus	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDTVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDTVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDTVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDTVPGALDYKSFSTALYGESDL	903 904 928 908 911 944 933 933 912 933 933 933	
Rhinatrema_bivittatum Gallus_gallus Anas_platyrhynchos Chelonia_mydas Homo_sapiens Callithrix_jacchus Pan_troglodytes Macaca_mulatta Mus_musculus Pteropus_alecto Heterocephalus_glaber Equus_caballus Ornithorhynchus_anatinus	PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYMSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPEQAEYCIARMAPYRGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAAPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDTVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDTVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDTVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL PPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESDL	903 904 928 908 911 944 933 933 912 933 933 933 933	