File: /home/ceglab2/Desktop/ajinkya/pavo/MS**P**ataCTWethEeb 16 12:07:45 2022 Page 1 of 6

	** **.*: :*** *:**********************	
Pavo muticus	MDHHYDPOOTNDYMOPEEDWDRDLLLDPAWEKOORKTFTAWCNSHLRKAGTOIENIEEDF	60
Pavo cristatus	MDHHYDPOOTNDYMOPEEDWDRDLLLDPAWEKOORKTFTAWCNSHLRKAGTOIENIEEDF	60
Gallus gallus	MDHHYDPOOTNDYMOPEEDWDRDLLLDPAWEKOORKTFTAWCNSHLRKAGTOIENIEEDF	60
Anas platyrhynchos	MD-HYDPQQTNDYMQPEEDWDRDLLLDPAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDF	59
Chelonia mydas	MD-YYDSQQTNDYMQPEEDWDRDMLLDPAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDF	59
Ornithorhynchus anatinus	MDHCYDAQQSNDYMQPEEDWDRDLLLDPAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDF	60
Homo_sapiens	MD-HYDSQQTNDYMQPEEDWDRDLLLDPAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDF	59
Pan troglodytes	MD-HYDSOOTNDYMOPEEDWDRDLLLDPAWEKOORKTFTAWCNSHLRKAGTOIENIEEDF	59
Macaca mulatta	MD-HYDSQQTNDYMQPEEDWDRDLLLDPAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDF	59
Callithrix jacchus	MD-HYDSQQTNDYMQPEEDWDRDLLLDPAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDF	59
Mus musculus	MD-HYDSQQTNDYMQPEEDWDRDLLLDPAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDF	59
Equus_caballus	MD-HYDSOOTNDYMOPEEDWDRDLLLDPAWEKOORKTFTAWCNSHLRKAGTOIENIEEDF	59
Pteropus alecto	MD-HYDSQQTNDYMQPEEDWDRDLLLDPAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDF	59
Bos taurus	MD-HYDSQQTNDYMQPEEDWDRDLLLDPAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDF	59
Rhinatrema bivittatum	MD-HYDSQQTIDYMOPEDDWDRDLLLDPAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDF	59
Xenopus tropicalis	MD-HYDSQNNYMQQEDDWDRDLLLDPAWEKQQRKTFTAWCNSHLRKAGTQIENIDEDF	57
	1102030405060	
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Pavo_muticus	RDGLKLMLLLEVISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGN	120
Pavo_cristatus	RDGLKLMLLLEVI <mark>SGERLAKPERGK</mark> MRVHKISNV <mark>NK</mark> ALDFIASKGVKLVSIGAEEIVDGN	120
Gallus_gallus	RDGLKLMLLLEVI <mark>SGERLAKPERGK</mark> MRVHKISNV <mark>NK</mark> ALDFIASKGVKLVSIGAEEIVDGN	120
Anas_platyrhynchos	RDGLKLMLLLEVI <mark>SGERLAKPERGK</mark> MRVHKISNV <mark>NK</mark> ALDFIASKGVKLVSIGAEEIVDGN	119
Chelonia_mydas	RDGLKLMLLLEVISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGN	119
Ornithorhynchus_anatinus	RDGLKLMLLLEVISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGN	120
Homo_sapiens	RDGLKLMLLLEVISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGN	119
Pan_troglodytes	RDGLKLMLLLEVISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGN	119
Macaca_mulatta	RDGLKLMLLLEVISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGN	119
Callithrix_jacchus	RDGLKLMLLLEVISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGN	119
Mus_musculus	RDGLKLMLLLEVISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGN	119
Equus_caballus	RDGLKLMLLLEVISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGN	119
Pteropus_alecto	RDGLKLMLLLEVISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGN	119
Bos_taurus	RDGLKLMLLLEVISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGN	119
Rhinatrema_bivittatum	RDGLKLMLLLEVISGERLPKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGN	119
Xenopus_tropicalis	RDGLKLMLLLEVISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGN	117
	708090100110120	
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Pavo muticus	VKMTLGMIWTIILRFAIODISVEETSAKEGLLLWCORKTAPYKNVNIONFHISWKDGLGF	180
Pavo_muticus Pavo cristatus	VKMTLGMIWTIILRFAIODISVEETSAKEGLLLWCORKTAPYKNVNIONFHISWKDGLGF	180
Gallus gallus	VKMTLGMIWTIILRFAIODISVEETSAKEGLLLWCORKTAPYKNVNIONFHISWKDGLGF	180
Anas platyrhynchos	VKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYKNVNIQNFHISWKDGLGF	179
Chelonia mydas	VKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYKNVNIQNFHISWKDGLGF	179
Ornithorhynchus_anatinus		180
Homo_sapiens	VKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYKNVNIQNFHISWKDGLGF	179
Pan troglodytes	VKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYKNVNIQNFHISWKDGLGF	179
Macaca_mulatta	VKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYKNVNIQNFHISWKDGLGF	179
Callithrix_jacchus	VKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYKNVNIQNFHISWKDGLGF	179
Mus musculus	VKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYKNVNIQNFHISWKDGLGF	179
Equus caballus	VKMTLGMIWTIILRFAIODISVEETSAKEGLLLWCORKTAPYKNVNIONFHISWKDGLGF	179
Pteropus alecto	VKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYKNVNIQNFHISWKDGLGF	179
Bos taurus	VKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYKNVNIQNFHISWKDGLGF	179
Rhinatrema bivittatum	AKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYKNVNIQNFHISWKDGLGF	179
Xenopus_tropicalis	AKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYKNVNIQNFHISWKDGLGF	177
	130140150160170180	

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Pavo muticus	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIM	240
Pavo cristatus	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIM	240
Gallus gallus	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIM	240
Anas platyrhynchos	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIM	239
Chelonia mydas	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIM	239
Ornithorhynchus anatinus	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIM	240
Homo_sapiens	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIM	239
Pan troglodytes	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIM	239
Macaca_mulatta	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIM	239
Callithrix_jacchus	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIM	239
Mus_musculus	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAERFLDIPKMLDAEDIVGTARPDEKAIM	239
Equus_caballus	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIM	239
Pteropus_alecto	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIM	239
Bos_taurus	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIM	239
Rhinatrema_bivittatum	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIM	239
Xenopus_tropicalis	CALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAERYLDIPKMLDAEDIVGTARPDEKAIM	237
	190200210220230240	
	********** ************************	
Pavo_muticus	TYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLEN	300
Pavo_cristatus	TYVSSFYHAFS <mark>GAQKAETAANRICK</mark> VLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLEN	300
Gallus_gallus	TYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLEN	300
Anas_platyrhynchos	TYVSSFYHAFS <mark>GAQKAETAANRICK</mark> VLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLEN	299
Chelonia_mydas	TYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLEN	299
Ornithorhynchus_anatinus	TYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLEN	300
Homo_sapiens	TYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLEN TYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLEN	299 299
Pan_troglodytes	TYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLEN	
Macaca_mulatta		299
Callithrix_jacchus Mus musculus	TYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLEN TYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLEN	299 299
Equus_caballus	TYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLEN	299
Pteropus_alecto	TYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLEN	299
Bos_taurus	TYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLEN	299
Rhinatrema bivittatum	TYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWISRTIPWLEN	299
Xenopus_tropicalis	TYVSSFYHAFS <mark>G</mark> AQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLEN	297
xenopus_cropicaris	250260270280290300	231
	* . * * * * * * * * * * * * * * * * * *	
Pavo muticus	RAPENTMQAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPSEGK	360
Pavo cristatus	RAPENTMOAMOOKLEDFRDYRRLHKPPKVOEKCOLEINFNTLOTKLRLSNRPAFMPSEGK	360
Gallus_gallus	RAPENTMOAMOOKLEDFRDYRRLHKPPKVOEKCOLEINFNTLOTKLRLSNRPAFMPSEGK	360
Anas_platyrhynchos	RAPENTMQAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPSEGK	359
Chelonia_mydas	RAPENTMQAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPSEGK	359
Ornithorhynchus_anatinus	RAPENTMQAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPSEGK	360
Homo_sapiens	RVPENTMHAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPSEGR	359
Pan_troglodytes	RVPENTMHAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPSEGR	359
Macaca_mulatta	RVPENTMHAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPSEGR	359
Callithrix_jacchus	RVPENTMHAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPSEGR	359
Mus_musculus	RVPENTMHAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPSEGR	359
Equus_caballus	RAPENTMHAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPSEGR	359
Pteropus_alecto	RAPENTMHAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPSEGR	359
Bos_taurus	RAPENTMHAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPSEGR	359
Rhinatrema_bivittatum	RAPENTMQAMQQKMEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPTEGK	359
Xenopus_tropicalis	RAPENTMQAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPSEGK	357
	310320330340350360	

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Pavo muticus	MVSDINNAWGGLEQAEKGYEEWLLNEIRRLERLDHLAEKFROKASIHESWTDGKEAMLOO	420
Pavo cristatus	MVSDINNAWGGLEQAEKGYEEWLLNEIRRLERLDHLAEKFROKASIHESWTDGKEAMLOO	420
Gallus_gallus	MVSDINNAWGGLEOAEKGYEEWLLNEIRRLERLDHLAEKFROKASIHESWTDGKEAMLOO	420
Anas platyrhynchos	MVSDINNAWGGLEOAEKGYEEWLLNEIRRLERLDHLAEKFROKASIHESWTDGKEAMLOO	419
Chelonia mydas	MVSDINNAWGGLEOAEKGYEEWLLNEIRRLERLDHLAEKFROKASIHESWTDGKEAMLOO	419
Ornithorhynchus anatinus	MVSDISTAWGGLEQAEKGYEEWLLNEIRRLERLDHLAEKFRQKASIHEAWTDGKEAMLQQ	420
Homo_sapiens	MVSDINNAWGCLEQVEKGYEEWLLNEIRRLERLDHLAEKFRQKASIHEAWTDGKEAMLRQ	419
Pan_troglodytes	MVSDINNAWGCLEOVEKGYEEWLLNEIRRLERLDHLAEKFROKASIHEAWTDGKEAMLRO	419
Macaca mulatta	MVSDINNAWGCLEQVEKGYEEWLLNEIRRLERLDHLAEKFRQKASIHEAWTDGKEAMLRQ	419
Callithrix jacchus	MVSDINNAWGCLEQVEKGYEEWLLNEIRRLERLDHLAEKFROKASIHEAWTDGKESMLRO	419
Mus_musculus	MVSDINNAWGCLEQAEKGYEEWLLNEIRRLERLDHLAEKFRQKASIHEAWTDGKEAMLRQ	419
Equus_caballus	MVSDINNAWGCLEQAEKGYEEWLLNEIRRLERLDHLAEKFROKASIHEAWTDGKEAMLRO	419
Pteropus_alecto	MVSDINNAWGCLEQAEKGYEEWLLNEIRRLERLDHLAEKFROKASIHEAWTDGKEAMLRO	419
Bos taurus	MVSDINNAWGCLEQAEKGYEEWLLNEIRRLERLDHLAEKFROKASIHEAWTDGKEAMLRO	419
Rhinatrema_bivittatum	MVSDICNAWSGLEQAEKGYEEWQLNEIRRLERLEHLADKFRQKACIHEAWTDGKEGMLQQ	419
Xenopus_tropicalis	MVSDINNAWGGLEQAEKGYEEWMLNEIRRLERLDHLAEKFROKASIHEAWTDGKEAMLOK	417
	370380390400410420	
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Pavo_muticus	KDYETATLSEIKALLKKHEAFESDLAAHQDRVEQIAAIAQELNELDYYDSPSVNARCQKI	480
Pavo_cristatus	KDYETATLSEIKALLKKHEAFESDLAAHQDRVEQIAAIAQELNELDYYDSPSVNARCQKI	480
Gallus_gallus	KDYETATL <mark>SEIK</mark> ALL <mark>KKHE</mark> AFESDLAAHQDRVEQIAAIAQELNELDYYDSPSVNARCQKI	480
Anas_platyrhynchos	KDYETATL <mark>SEIK</mark> ALL <mark>KKHE</mark> AFESDLAAHQDRVEQIAAIAQELNELDYYDSPSVNARCQKI	479
Chelonia_mydas	KDYETATL <mark>SEIK</mark> ALL <mark>KKHE</mark> AFESDLAAHQDRVEQIAAIAQELNELDYYDSPSVNARCQKI	479
Ornithorhynchus_anatinus	KDYETATL <mark>SEIK</mark> ALL <mark>KKHE</mark> AFESDLAAHQDRVEQIAAIAQELNELDYYDSPNVNARCQKI	480
Homo_sapiens	KDYETATL <mark>SEIK</mark> ALL <mark>KKHE</mark> AFESDLAAHQDRVEQIAAIAQELNELDYYDSPSVNARCQKI	479
Pan_troglodytes	KDYETATL <mark>SEIK</mark> ALL <mark>KKHE</mark> AFESDLAAHQDRVEQIAAIAQELNELDYYDSPSVNARCQKI	479
Macaca_mulatta	KDYETATL <mark>SEIK</mark> ALL <mark>KKHE</mark> AFESDLAAHQDRVEQIAAIAQELNELDYYDSPSVNARCQKI	479
Callithrix_jacchus	KDYETATL <mark>SEIK</mark> ALL <mark>KKHE</mark> AFESDLAAHQDRVEQIAAIAQELNELDYYDSPSVNARCQKI	479
Mus_musculus	KDYETATL <mark>SEIK</mark> ALL <mark>KKHE</mark> AFESDLAAHQDRVEQIAAIAQELNELDYYDSPSVNARCQKI	479
Equus_caballus	KDYETATLSEIKALLKKHEAFESDLAAHQDRVEQIAAIAQELNELDYYDSPSVNARCQKI	479
Pteropus_alecto	KDYETATLSEIKALLKKHEAFESDLAAHQDRVEQIAAIAQELNELDYYDSPSVNARCQKI	479
Bos_taurus	KDYETATLSEIKALLKKHEAFESDLAAHQDRVEQIAAIAQELNELDYYDSPSVNARCQKI	479
Rhinatrema_bivittatum	TDYETATLSEIKALLKKHEAFESDLAAHQDRVEQIAAIAQELNELDYYDSPSVNARCQKI	479
Xenopus_tropicalis	KDYETASLSDIKALLKKHEAFESDLAAHQDRVEQIAAIAQELNELDYYDSQTVNARCQRI	477
	430440450460470480	
	**** ***** *****	
Pavo muticus	CDOWDNLGALTOKRREALERTEKLLETIDOLYLEYAKRAAPFNNWMEGAMEDLODTFIVH	540
Pavo cristatus	CDOWDNLGALTOKRREALERTEKLLETIDOLYLEYAKRAAPFNNWMEGAMEDLODTFIVH	540
Gallus gallus	CDOWDNLGALTOKRREALERTEKLLETIDOLYLEYAKRAAPFNNWMEGAMEDLODTFIVH	540
Anas platyrhynchos	CDQWDNLGALTQKRREALERTEKLLETIDQLYLEYAKRAAPFNNWMEGAMEDLQDTFIVH	539
Chelonia_mydas	CDQWDNLGALTQKRREALERTEKLLETIDQLYLEYAKRAAPFNNWMEGAMEDLQDTFIVH	539
Ornithorhynchus_anatinus	CDOWDSLGALTOKRREALERTEKLLETIDOLYLEYAKRAAPFNNWMEGAMEDLODTFIVH	540
Homo_sapiens	CDQWDNLGALTQKRREALERTEKLLETIDQLYLEYAKRAAPFNNWMEGAMEDLQDTFIVH	539
Pan_troglodytes	CDQWDNLGALTQKRREALERTEKLLETIDQLYLEYAKRAAPFNNWMEGAMEDLQDTFIVH	539
Macaca_mulatta	CDQWDNLGALTQKRREALERTEKLLETIDQLYLEYAKRAAPFNNWMEGAMEDLQDTFIVH	539
Callithrix_jacchus	CDQWDNLGALTQKRREALERTEKLLETIDQLYLEYAKRAAPFNNWMEGAMEDLQDTFIVH	539
Mus_musculus	CDQWDNLGALTQKRREALERTEKLLETIDQLYLEYAKRAAPFNNWMEGAMEDLQDTFIVH	539
Equus_caballus	CDQWDNLGALTQKRREALERTEKLLETIDQLYLEYAKRAAPFNNWMEGAMEDLQDTFIVH	539
Pteropus_alecto	CDQWDNLGALTQKRREALERTEKLLETIDQLYLEYAKRAAPFNNWMEGAMEDLQDTFIVH	539
Bos_taurus	CDQWDNLGALTQKRREALERTEKLLETIDQLYLEYAKRAAPFNNWMEGAMEDLQDTFIVH	539
Rhinatrema_bivittatum	CDQWDHLGALTQTRREALERTEKLLETIDQLYLECAKRAAPFNNWMEGAMEDLQDTFIVH	539
Xenopus_tropicalis	CDQWDNLGALTQQRREALERTEKLLETIDQLYLEYAKRAAPFNNWMEGAMEDLQDTFIVH	537
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File: /home/ceglab2/Desktop/ajinkya/pavo/MS**P**ateCTWethEeb 16 12:07:45 2022 Page 4 of 6

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Pavo muticus	TIEEIQGLTTAHEQFKATLPDADKERQAILGIHNEVSKIVQTYHVNMAGTNPYTTITPQE	600
Pavo cristatus	TIEEIOGLTTAHEOFKATLPDADKEROAILGIHNEVSKIVOTYHVNMAGTNPYTTITPOE	600
Gallus gallus	TIEEIOGLTTAHEOFKATLPDADKEROAILGIHNEVSKIVOTYHVNMAGTNPYTTITPOE	600
Anas platyrhynchos	TIEEIQGLTTAHEQFKATLPDADKERQAILGIHNEVSKIVQTYHVNMAGTNPYTTITPQE	599
Chelonia_mydas	TIEEIQGLTTAHEQFKATLPDADKERQAILGIHNEVSKIVQTYHVNMAGTNPYTTITPQE	599
Ornithorhynchus_anatinus	TIEEIQGLTTAHEQFKATLPDADKERQAILGIHNEVTKIVQTYHVNMAGTNPYTTITPQE	600
Homo_sapiens	TIEEIQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIVQTYHVNMAGTNPYTTITPQE	599
Pan_troglodytes	TIEEIQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIVQTYHVNMAGTNPYTTITPQE	599
Macaca_mulatta	TIEEIQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIVQTYHVNMAGTNPYTTITPQE	599
Callithrix_jacchus	TIEEIQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIVQTYHVNMAGTNPYTTITPQE	599
Mus_musculus	TIEEIQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIVQTYHVNMAGTNPYTTITPQE	599
Equus_caballus	TIEEIQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIVQTYHVNMAGTNPYTTITPQE	599
Pteropus_alecto	AIEEVQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIVQTYHVNMAGTNPYTTITPQE	599
Bos_taurus	TIEEIQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIVQTYHVNMAGTNPYTTITPQE	599
Rhinatrema_bivittatum	TIEEIQGLITAHEQFKATLPDADKERQAILGIHNEVSKIVQTYHVNMAGSNPYTTISPQE	599
Xenopus_tropicalis	TIEEIQGLTTAHEQFKATLPEADKERQAILGIQNEISKIMQTYHVNMSGSNPYTSITPQE	597
	550560570580590600	
	**.**.*********	
Pavo muticus	INGKWEHVRQLVPRRDQALMEEHARQQQNERLRKQFGAQANVIGPWIQTKMEEIGRISIE	660
Pavo cristatus	INGKWEHVRQLVPRRDQALMEEHARQQQNERLRKQFGAQANVIGPWIQTKMEEIGRISIE	660
Gallus gallus	INGKWEHVRQLVPRRDQALMEEHARQQQNERLRKQFGAQANVIGPWIQTKMEEIGRISIE	660
Anas platyrhynchos	INGKWEHVROLVPRRDOALMEEHAROOONERLRKOFGAOANVIGPWIOTKMEEIGRISIE	659
Chelonia mydas	INGKWDHVROLVPRRDOALLEEHTROOONERLRKOFGAOANVIGPWIOTKMEEIGRISIE	659
Ornithorhynchus anatinus	INGKWDHVRQLVPRRDEALMEEHARQQQNERLRKQFGAQANVIGPWIQTKMEEIGRISIE	660
Homo_sapiens	INGKWDHVRQLVPRRDQALTEEHARQQHNERLRKQFGAQANVIGPWIQTKMEEIGRISIE	659
Pan troglodytes	INGKWDHVRQLVPRRDQALTEEHARQQHNERLRKQFGAQANVIGPWIQTKMEEIGRISIE	659
Macaca mulatta	INGKWDHVRQLVPRRDQALTEEHARQQHNERLRKQFGAQANVIGPWIQTKMEEIGRISIE	659
Callithrix_jacchus	INGKWDHVRQLVPRRDQALTEEHARQQHNERLRKQFGAQANVIGPWIQTKMEEIGRISIE	659
Mus_musculus	INGKWDHVRQLVPRRDQALTEEHARQQHNERLRKQFGAQANVIGPWIQTKMEEIGRISIE	659
Equus_caballus	INGKWDHVRQLVPRRDQALTEEHARQQHNERLRKQFGAQANVIGPWIQTKMEEIGRISIE	659
Pteropus_alecto	INGKWDHVRQLVPRRDQALTEEHARQQHNERLRKQFGAQANVIGPWIQTKMEEIGRISIE	659
Bos_taurus	INGKWDHVRQLVPRRDQALTEEHARQQHNERLRKQFGAQANVIGPWIQTKMEEIGRISIE	659
Rhinatrema_bivittatum	INSKWDQVRQLVPRRDQALMEEHARQQQNERLRKQFAAQANDIGPWIQSKMQEIGRISIE	659
Xenopus_tropicalis	INNKWDHVRQLVPRRDQALTEEHARQQQNERLRKQFAAQANVIGPWIQTKMQEIGRIAIE	657
	610620630640650660	
Barra marké mara	********:****************************	<b>500</b>
Pavo_muticus	MHGTLEDQLNHLRQYEKSIVNYKPKIDQLEGDHQQIQEALIFDNKHTNYTMEHIRVGWEQ	720
Pavo_cristatus	MHGTLEDQLNHLRQYEKSIVNYKPKIDQLEGDHQQIQEALIFDNKHTNYTMEHIRVGWEQ	720 720
Gallus_gallus Anas platyrhynchos	MHGTLEDQLNHLRQYEKSIVNYKPKIDQLEGDHQQIQEALIFDNKHTNYTMEHIRVGWEQ MHGTLEDQLNHLRQYEKSIVNYKPKIDQLEGDHQQIQEALIFDNKHTNYTMEHIRVGWEQ	719
Chelonia mydas	MHGTLEDQLNHLRQYEKSIINYKPKIDQLEGDHQQIQEALIFDNKHTNYTMEHIRVGWEQ	719
	MHGTLEDQLNHLRQYEQSIVNYKPKIDQLEGNHQQIQEALIFDNKHTNYTMEHIRVGWEQ	720
Homo_sapiens	MHGTLEDOLSHLROYEKSIVNYKPKIDOLEGDHOLIQEALIFDNKHTNYTMEHIRVGWEO	719
Pan troglodytes	MHGTLEDQLSHLRQYEKSIVNYKPKIDQLEGDHQLIQEALIFDNKHTNYTMEHIRVGWEQ	719
Macaca mulatta	MHGTLEDQLSHLRQYEKSIVNYKPKIDQLEGDHQLIQEALIFDNKHTNYTMEHIRVGWEQ	719
Callithrix jacchus	MHGTLEDQLSHLRQYEKSIVNYKPKIDQLEGDHQLIQEALIFDNKHTNYTMEHIRVGWEQ	719
Mus musculus	MHGTLEDQLSHLRQYEKSIVNYKPKIDQLECDHQLIQEALIFDNKHTNYNMEHIRVGWEQ	719
Equus_caballus	MHGTLEDQLSHLRQYEKSIVNYKPKIDQLEGDHQLIQEALIFDNKHTNYTMEHIRVGWEQ	719
Pteropus_alecto	MHGTLEDQLSHLRQYEKSIVNYKPKIDQLEGDHQLIQEALIFDNKHTNYTMEHIRVGWEQ	719
Bos_taurus	MHGTLEDQLNHLRQYEKSIVNYKPKIDQLEGDHQLIQEALIFDNKHTNYTMEHIRVGWEQ	719
Rhinatrema_bivittatum	MHGTLEDQINHLRQYEKSIVSYKPKIDQLEGDHQQIQEALIFDNKHTNYTMEHIRVGWEQ	719
Xenopus_tropicalis	MHGTLEDQLNNLRQYEKSIVNYKPKIDQLESDHQQIQEALIFDNKHTNYTMEHIRVGWEQ	717
	670680690700710720	

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Darra mutiana	•	761
Pavo_muticus	LLTTIARTINEVENQILTRDAKGISQEQMNEFRASFNHFDR	761
Pavo_cristatus	LLTTIARTINEVENQILTRDAKGISQEQMNEFRASFNHFDR	761
Gallus_gallus	LLTTIARTINEVENQILTRDAKGISQEQMNEFRASFNHFDRDHSGTLGPEEFKACLISLG	780
Anas_platyrhynchos	LLTTIARTINEVENQILTRDAKGISQEQMNEFRASFNHFDRDHSGTLGPEEFKACLISLG	779
Chelonia_mydas	LLTTIARTINEVENQILTRDAKGISQEQMNEFRASFNHFDRDHSGTLGPEEFKACLISLG	779
Ornithorhynchus_anatinus	LLTTIARTINEVENQILTRDAKGISQEQMNEFRASFNHFDRDHSGTLGPEEFKACLISLG	780
Homo_sapiens	LLTTIA <mark>R</mark> TINEVENQILTRDAKGISQEQMNEF <mark>R</mark> ASFNHFDRDHSGTLGPEEFKACLISL <mark>G</mark>	779
Pan_troglodytes	LLTTIA <mark>R</mark> TINEVENQILTRDAKGISQEQMNEF <mark>R</mark> ASFNHFDRDHSGTLGPEEFKACLISL <mark>G</mark>	779
Macaca mulatta	LLTTIARTINEVENQILTRDAKGISQEQMNEFRASFNHFDRDHSGTLGPEEFKACLISLG	779
Callithrix jacchus	LLTTIARTINEVENQILTRDAKGISQEQMNEFRASFNHFDRDHSGTLGPEEFKACLISLG	779
Mus musculus	LLTTIARTINEVENQILTRDAKGISQEQMNEFRASFNHFDRDHSGTLGPEEFKACLISLG	779
Equus caballus	LLTTIARTINEVENQILTRDAKGISQEQMNEFRASFNHFDRDHSGTLGPEEFKACLISLG	779
Pteropus alecto	LLTTIARTINEVENOILTRDAKGISOEOMNEFRASFNHFDRDHSGTLGPEEFKACLISLG	779
Bos taurus	LLTTIARTINEVENOILTRDAKGISOEOMNEFRASFNHFDRDHSGTLGPEEFKACLISLG	779
Rhinatrema bivittatum	LLTTSARTINEVENQILTRDAKGISQEQMNEFRASFNHFDRDHSGTLGPDEFKACLISLG	779
<del>-</del>		_
Xenopus_tropicalis	LLTTIARTINEVENQVLTRDAKGISQEQMNEFRNSFSHFDRDHSGRLGPEEFKACLISLG	777
	730740750760770780	
	***********	
Pavo_muticus	KKTGMMDCEDFRACLISMGYNMGEAEFARIMSIVDPNRMGVVTFQAFIDFMS	813
Pavo cristatus	KKTGMMDCEDFRACLISMGYNMGEAEFARIMSIVDPNRMGVVTFOAFIDFMS	813
Gallus gallus	YDIGNDAÖKKTGMMDCEDFRACLISMGYNMGEAEFARIMSIVDPNRMGVVTFOAFIDFMS	840
Anas platyrhynchos	YDIGNDAOKKTGMMDCEDFRACLISMGYNMGEAEFARIMSIVDPNRLGVVTFOAFIDFMS	839
Chelonia mydas	YDIGNDAQKKTGMMDSEDFRACLISMGYNMGEAEFARIMSIVDPNRLGVVTFQAFIDFMS	839
Ornithorhynchus anatinus	YDIGNDPOKKTGMMDTEDFRACLISMGYNMGEAEFARIMSIVDPNRLGVVTFQAFIDFMS	840
Homo_sapiens	YDIGNDPQKKTGMMDTDDFRACLISMGYNMGEAEFARIMSIVDPNRLGVVTFQAFIDFMS	839
Pan_troglodytes	YDIGNDPQKKTGMMDTDDFRACLISMGYNMGEAEFARIMSIVDPNRLGVVTFQAFIDFMS	839
Macaca_mulatta	YDIGNDPQKKTGMMDTDDFRACLISMGYNMGEAEFARIMSIVDPNRLGVVTFQAFIDFMS	839
Callithrix_jacchus	YDIGNDPQKKTGMMDTDDFRACLISMGYNMGEAEFARIMSIVDPNRLGVVTFQAFIDFMS	839
Mus_musculus	YDIGNDPQGEAEFARIMSIVDPNRLGVVTFQAFIDFMS	817
Equus caballus	YDIGNDPOKKTGMMDTDDFRACLISMGYNMGEAEFARIMSIVDPNRLGVVTFOAFIDFMS	839
Pteropus alecto	YDIGNDPOKKTGMMDTDDFRACLISMGYNMGEAEFARIMSIVDPNRLGVVTFQAFIDFMS	839
Bos taurus	YDIGNDPOKKTGMMDTDDFRACLISMGYNMGEAEFARIMSIVDPNRLGVVTFOAFIDFMS	839
Rhinatrema bivittatum	YDIGNDPOKKTGMMDTEDFRACLISMGYNMGEAEFVRIMSIIDPNRLGVVTFOAFIDFMS	839
Xenopus tropicalis	YDIGNDPQKKSGFLESDDFRACLISMGYNMGEAEFARIMSIVDPNRLGLVTFQAFIDFMS	837
xenopus_cropicaris	790800810820830840	037
	790	
_	<u>*********</u> <u>*</u> *:****	
Pavo_muticus	RETADTDTADQVMASFKILAGDKNYITVDELRRELPPEQAEYCIARMAPYNGRDAVPGAL	873
Pavo_cristatus	RETADTDTADQVMASFKILAGDKNYITVDELRRELPPDQAEYCIARMAPYNGRDAVPGAL	873
Gallus_gallus	RETADTDTADQVMASFKILAGDKNYITVDELRRELPPDQAEYCIARMAPYNGRDAVPGAL	900
Anas platyrhynchos	RETADTDTADQVMASFKILAGDKNYITVDELRRELPPDQAEYCIARMAPYNGRDAVPGAL	899
Chelonia_mydas	RETADTDTADQVMASFKILAGDKNYITVDELRRELPPDQAEYCIARMAPYSGPDAVPGAL	899
Ornithorhynchus anatinus		900
Homo sapiens	RETADTDTADOVMASFKILAGDKNYITMDELRRELPPDOAEYCIARMAPYTGPDSVPGAL	899
Pan troglodytes	RETADTDTADOVMASFKILAGDKNYITMDELRRELPPDOAEYCIARMAPYTGPDSVPGAL	899
Macaca mulatta	RETADTDTADOVMASFKILAGDKNYITVDELRRELPPDOAEYCIARMAPYTGPDSVPGAL	899
Callithrix_jacchus	RETADTDTADQVMASFKILAGDKNYITVEELRRELPPDQAEYCIARMAPYTGPDSVPGAL	899
Mus_musculus	RETADTDTADQVMASFKILAGDKNYITEDELRRELPPDQAEYCIARMAPYAGPDSVPGAL	877
Equus_caballus	RETADTDTADQVMASFKILAGDKNYITMDELRRELPPDQAEYCIARMAPYAGPDAVPGAL	899
Pteropus_alecto	RETADTDTADQVMASFKILAGDKNYITVDELRRELPPDQAEYCIARMAPYTGPDAVPGAL	899
Bos_taurus	RETADTDTADQVMASFKILAGDKNYITVDELRRELPPDQAEYCIARMAPYTGPDAVPGAL	899
Rhinatrema_bivittatum	RETADTDTADQVMASFKILAGDKNYITSDELRRELPPDQAEYCIARMAPYNGHDAVPGAL	899
Xenopus_tropicalis	RETADTDTADQVMASFKILAGDKNYITADELRRELPPDQAEYCIARMAPYLGPDAVPGAL	897
	850860870880890900	

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Pavo_muticus	DYM <mark>S</mark> FSTALY <mark>GESD</mark> L	888
Pavo_cristatus	DYMSFSTALYGESDL	888
Gallus_gallus	DYMSFSTALYGESDL	915
Anas_platyrhynchos	DYMSFSTALYGESDL	914
Chelonia_mydas	DYMSFSTALYGESDL	914
Ornithorhynchus_anatinus	DYMSFSTALYGESDL	915
Homo_sapiens	DYMSFSTALYGESDL	914
Pan_troglodytes	DYMSFSTALYGESDL	914
Macaca_mulatta	DYMSFSTALYGESDL	914
Callithrix_jacchus	DYMSFSTALYGESDL	914
Mus_musculus	DYMSFSTALYGESDL	892
Equus_caballus	DYMSFSTALYGESDL	914
Pteropus_alecto	DYMSFSTALYGESDL	914
Bos_taurus	DYMSFSTALYGESDL	914
Rhinatrema_bivittatum	DYMSFSTALYGESDL	914
Xenopus_tropicalis	DYMSFSTALYGESDL	912
	910	