File: /home/ceglab2/Desktop/ajinkya/pavo/MS**P**464PC44pFeb 15 16:30:41 2022 Page 1 of 4

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Pavo muticus	MPRRGS-LPPLVCTLAALSLP-LLLAAEPRAKSCSEVRRLYAAKGFSQSEAPSHEISGD	58
Pavo cristatus	MPRRRGS-LPPLVCTLAALSLP-LLLAAEPRAKSCSEVRRLYAAKGFSQSEAPSHEISGD	58
Gallus_gallus	MPRRCS-LPPLVCTLAALSLP-LLLAAEPRAKSCSEVRRLYAAKGFSOSEAPSHEISGD	58
Anas_platyrhynchos	MPRRRGC-LPPLVCTLAALSLP-LLLAAEPRAKSCSEVRRLYAAKGFSQSEAPSHEISGD	58
Chelonia mydas	MPRRSACLLPPLLCAVAACSLPLLLLAAELKSKNCSEVRRLYVAQGFSQSDAPSHEIHGD	60
Homo sapiens	MARFGLPALLCTLAVLSAALLAAELKSKSCSEVRRLYVSKGFNKNDAPLHEINGD	55
Pan_troglodytes	MARFGLPALLCTLAVLSAALLAAELKSKSCSEVRRLYVSKGFNKNDAPLHEINGD	55
Macaca mulatta	MARFGLPALLCTLAVLNALLQAAELKSKSCSEVRRLYVSKGFNKNDAPLHEINGD	55
Callithrix_jacchus	MARFGLPALLCTLAVLSAALLAAELKSKSCSEVRRLYMSKGFNKNDAPLHEINGD	55
Heterocephalus glaber	MARFGLPALLCTLAVUSAMLLAAELKSKSCSEVRRLYVAKGFNKNDAPLHQINGD	55
Mus musculus	MARLGLLALLCTLAALSASLLAAELKSKSCSEVRRLYVSKGFNKNDAPLYEINGD	55
Pteropus alecto	MARLGLPALLCTLAVLRAALLAAELKSKSCSEVRRLYVSKGFNKNDAPTHEINGD	55
Equus_caballus	MARFGLPALLCTLAALSAALLAAELKSKSCSEVRRLYVSKGFDKDDAPTQEINGD	55
_	MARFGLPALFCTLAALSAALLAAEPKSKSCSEVRRLYVSKGFDKNDAPMHEINGD	55
Bos_taurus	MVWPGLPSVICTLAALSLSPLAAEPKSKSCSEVKRLYVSQGFNKNDAPSHEINGD	55
Ornithorhynchus_anatinus		
Xenopus_tropicalis	MVWISFYPLLACTLALFSLPVGADLKSKSCSEVRRLYISKGFNQNDAPTHEINGD MIQMN-FPCLVCTFAAFSLSVLAELKSKSCSEVRKSYISKGFNQKDAPYHEINGD	55 54
Rhinatrema_bivittatum		54
	1102030405060	
	***: * * ***: ***: * * : * * :	
Pavo muticus	HLKVCSQAYTCCTQEMEERYSQLSK-DFRNAVVDLSNHLQTMFSSRYKKFDEFFKELLEN	117
Pavo cristatus	HLKVCSQAYTCCTQEMEERYSQLSK-DFRNAVVDLSNHLQTMFSSRYKKFDEFFKELLEN	117
Gallus gallus	HLKVCSQAYTCCTQEMEERYSQLSKHDFRNAVVELSNHLQTMFSSRYKKFDEFFKELLEN	118
Anas platyrhynchos	HLKVCSQAYTCCSQEMEEKYSQQSKHDFRNAVVELSNHLQTMFSSRYKKFDEFFKELLEN	118
Chelonia_mydas	HLKVCPQGYTCCSQEMEEKYSQQSKHDFRNAVVELSSHLQTTFSSRYKKFDEFFKELLEN	120
Homo_sapiens	HLKICPQGSTCCSQEMEEKYSLQSKDDFKSVVSEQCNHLQAVFASRYKKFDEFFKELLEN	115
Pan troglodytes	HLKICPQGSTCCSQEMEEKYSLQSKDDFKSVVSEQCNHLQAVFASRYKKFDEFFKELLEN	115
Macaca mulatta	HLKICPQGSTCCSQEMEEKYSLQSKDDFKSVVSEQCNHLQAVFASRYKKFDEFFKELLEN	115
Callithrix jacchus	HLKICPOGSTCCSEEMEEKYSLOSKEDFKSVVSEQCDHLOAVFASRYKKFDEFFKELLEN	115
Heterocephalus glaber	HLKICPQGYTCCSEEMEEKYSLQSKDDFKNVVTEQCNHLQAVFASRYKKFDEFFKELLEN	115
Mus musculus	HLKICPQDYTCCSQEMEEKYSLQSKDDFKTVVSEQCNHLQAIFASRYKKFDEFFKELLEN	115
<del>_</del>		115
Pteropus_alecto	HLKICPQDYTCCSQEMEEKYSLQSKDEFKNVVGEQCNHLQAVFASHYKKFDEFFKELLEN HLKICAQGYTCCSQEMEERYSLQSKDDFISVVSEQCNNLQAIFASRYKKFDEFFKELLEN	115
Equus_caballus		115
Bos_taurus	HLKICLQGYTCCSQEMEEKYSLQSKEDFKSVVSEQCNHLQAVFASRYKKFDEFFKELLEN	115
Ornithorhynchus_anatinus	HLKVCPQGYTCCSQEMEEKYSQQSKDDFRGSVGEHCNLLQTTFGSRYKKFDEFFKELLEN	115
Xenopus_tropicalis	HLKVCSQRHTCCSLAMEEKYSQQSKHDFKVAVIEPCNNMQHIFASRFNKFDEFFKELLQN	113
Rhinatrema_bivittatum	HLKVCPQGFTCCSVAMEEKYSQQSKHDFKNAVTEPCSLMQNTFASRYKKFDEFFKELLEN	114
	708090100110120	
	**:*****::***::**	
Pavo muticus	AEKSLNDMFVRTYGRMYMONSELFKDLFVELKRYYVGGNVNLEEMLNDFWARLLERMFRL	177
Pavo_cristatus	AEKSLNDMFVRTYGRMYMQNSELFKDLFVELKRYYVGGNVNLEEMLNDFWARLLERMFRL	177
Gallus_gallus	AEKSLINDMFVRTYGRLYMQNSELFKDLFVELKRYYVGGNVILLEEMLINDFWARLLERMFRL	178
Anas platyrhynchos	AEKSLNDMFVRTYGRLYMONSELFKDLFVELKRYYVGGNVNLEEMLNEFWARLLERMFRL	178
Chelonia mydas	AEKSLNDMFLRTYGRLYMONSELFKDLFIELKRYYVGGNVNLEEMLNDFWARLLERMFRL	180
Homo sapiens	AEKSLNDMFVKTYGHLYMQNSELFKDLFVELKRYYVVGNVNLEEMLNDFWARLLERMFRL	175
Pan troglodytes	AEKSLNDMFVKTYGHLYMQNSELFKDLFVELKRYYVVGNVNLEEMLNDFWARLLERMFRL	175
Macaca mulatta	AEKSLNDMFVKTYGHLYMQNSELFKDLFVELKRYYVVGNVNLEEMLNDFWARLLERMFRL	175
Macaca_mulatta Callithrix_jacchus	AEKSLNDMFVKTYGHLYMQNSELFKDLFVELKRYYVVGNVNLEEMLNDFWARLLERMFRL	175
Heterocephalus_glaber	AEKSLNDMFVKTYGRLYMQNSELFKDLFVELKRYYVVGNVNLEEMLNDFWARLLERMFRL	175
Mus musculus	AEKSLNDMFVKTYGKLYMQNSELFKDLFVELKRYYVAGNVNLEEMLNDFWARLLERMFRL AEKSLNDMFVKTYGHLYMQNSELFKDLFVELKRYYVAGNVNLEEMLNDFWARLLERMFRL	175
Pteropus_alecto	AEKSLNDMFVKTYGHLYMQNSELFKDLFKELKRYYVVGNVNLEEMLNDFWARLLERMFRL	175
Equus caballus	AEKSLNDMFVKTYGRLYMQNSELFKDLFEELKRYYVVGNVNLEEMLNDFWARLLERMFRL	175
Bos taurus	AEKSLNDMFVKTYGKLYMQNSELFKDLFEELKRYYVAGNVNLEEMLNDFWARLLERMFRL AEKSLNDMFVKTYGHLYMQNSELFKDLFEELKRYYVAGNVNLEEMLNDFWARLLERMFRL	175
Ornithorhynchus_anatinus		175
	AEKSLNDMFVRTYGRLYMQNSELFKDLFVELKKYYVGGNVNLEEMLNDFWARLLERMFRL AENSLNDMFVRTYGRLYMQNSELFKDFFVELKKYYVGGNVNLEEMLNDFWARLLERMFRL	
Xenopus_tropicalis Rhinatrema bivittatum	AENSLINDMFVRTYGRLYMQNSELFKDFFVELKKYYVGGNVNLEEMLINDFWARLLERMFRL AEKSLINDMFVRTYGRLYMQNSKLFKDLFIELKQYYIGGNVNLEDMLINDFWARLLERMFQL	175 174
KHIMACTEMA_DIVICTACUM	130140150160170180	1/4
	1301401301001/0180	

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Pavo muticus	V <mark>NPQYHFTDEYLEC</mark> VSKYTEQLKPFGDVPRKLKLQVTRAFVAARTFAQGLAVAREVISKV	237
Pavo cristatus	VNPOYHFTDEYLECVSKYTEOLKPFGDVPRKLKLOVTRAFVAARTFAOGLAVAREVISKV	237
Gallus gallus	VNPQYHFTDEYLECVSKYTEQLKPFGDVPRKLKLQVTRAFVAARTFAQGLAVARDVISKV	238
Anas_platyrhynchos	V <mark>NPQYHFTDEYLECVSKYTEQLKPFGDVPRK</mark> LKLQVTRAFVAARTFAQGLAVARDVVSKV	238
Chelonia_mydas	V <mark>NPQYHFTDEYLECVSKYTEQLKP</mark> FGDVPRKLKLQVTRAFVAARTFAQGLAVARDVVTKV	240
Homo_sapiens	V <mark>NSQYHFTDEYLECVSKYTEQLKPFGDVPRKLK</mark> LQV <mark>TR</mark> AFVAARTFA <mark>QG</mark> LAVAGDVVSKV	235
Pan_troglodytes	VNSQYHFTDEYLECVSKYTEQLKPFGDVPRKLKLQVTRAFVAARTFAQGLAVAGDVVSKV	235
Macaca mulatta	VNSQYHFTDEYLECVSKYTEQLKPFGDVPRKLKLQVTRAFVAARTFAQGLAVAGDVVSKV	235
Callithrix_jacchus	VNSQYHFTDEYLECVSKYTEOLKPFGDVPRKLKLOVTRAFVAARTFAOGLAVAGDVVSKV	235
Heterocephalus glaber	VNSQYHFTDEYLECVSKYTEQLKPFGDVPRKLKLQVTRAFVAARTFAQGLAVARDVVSKV	235
Mus_musculus	VNSQYHFTDEYLECVSKYTEQLKPFGDVPRKLKLQVTRAFVAARTFAQGLAVARDVVSKV	235
Pteropus_alecto	VNSQYHFTDEYL <mark>ECVSKYTEQLKPFGDVPRK</mark> LKLQVTRAFVAA <mark>R</mark> TFAQ <mark>G</mark> LAVA <mark>RD</mark> VVSKV	235
Equus_caballus	VNSQYHFTDEYLECVSKYTEQLKPFGDVPRKLKLQVTRAFVAARTFAQGLAVARDVVSKV	235
Bos_taurus	VNSOYHFTDEYLECVSKYTEOLKPFGDVPRKLKLOVTRAFVAARTFAOGLAVARDVVSKV	235
Ornithorhynchus anatinus	VNPQYHFTDEYLECVSKYTEQLKPFGDVPRKLKLQVTRAFVAARTFAQGLAVARDVVNKV	235
Xenopus tropicalis	VNPQYQFTDEYLECVSKYTDQLKPFGDVPRKLKLQVTRAFVAARTFAQGLSVARDVINKV	235
Rhinatrema bivittatum	VNPQYVFTDEYLECVSKYTEDLKPFGDVPRKLKLQVTRAFVAARTFAQGLAVARDVISKV	234
RHIHatrema_DIVIttatum		234
	190210220230240	
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Pavo muticus	SAVNPTPQGTQALLKMMYCPHCRGLISVKPCYNYCFNVMRGCLANQGDLDAEWNIFMGSM	297
Pavo cristatus	SAVNPTPQGTQALLKMMYCPHCRGLISVKPCYNYCFNVMRGCLANQGDLDAEWNIFMGSM	297
	SAVNPTPOGTOALLKMMYCPHCRGLTSVKPCYNYCFNVMRGCLANOGDLDAEWNIFMGSM	298
Gallus_gallus		
Anas_platyrhynchos	SAVNPTPQGTRALLKMMYCPYCRGLVSVKPCYNYCFNVMRGCLANQGDLDTEWNTFMDSM	298
Chelonia_mydas	SAV <mark>NPTPQGERALLKMMYCPYCRGLLTVRPCYNYCFN</mark> VM <mark>RGCLANQGDLDTEWNN</mark> FIDSM	300
Homo_sapiens	SVV <mark>NPTAQCTHALLKMIYCSHCRG</mark> LVTVKPCYNYCSNIMRGCLANQGDLDFEWNNFIDAM	295
Pan troglodytes	SVVNPTAOCTHALLKMIYCSHCRGLVTVKPCYNYCSNIMRGCLANOGDLDFEWNNFIDAM	295
Macaca mulatta	SVVNPTAQCTHALLKMIYCSHCRGLVTVKPCYNYCSNIMRGCLANQGDLDFEWNNFIDAM	295
Callithrix jacchus	SVVNPTAQCTHALLKMIYCSHCQGLVTVKPCYNYCSNIMRGCLANQGDLDFEWNNFIDAM	295
		295
Heterocephalus_glaber	SVVNPTAQCTRALLKMIYCSHCRGLVTVKPCYNYCSNIMRGCLASQGDLDFEWNNFIDAM	
Mus_musculus	SVVNPTAQCTHALLKMIYCSHCRGLVTVKPCYNYCSNIMRGCLANQGDLDFEWNNFIDAM	295
Pteropus_alecto	SVVNPTAQCTHALLKMIYCSHCQGLVTVKPCYNYCSNIMRGCLANQGDLDFEWNNFIDAM	295
Equus_caballus	SVVNPTAQCTHALLKMIYCSHCQGLVTVKPCYNYCSNIMRGCLANQGDLDFEWNNFIDAM	295
Bos_taurus	SVVNPTTQCTHALVKMMYCSHCQGLVTVKPCYNYCSNIMRGCLANQGDLDLEWNNFIDAM	295
Ornithorhynchus anatinus	SVVNPTPSCTHALLKMMYCPHCRGLVTVKPCYNYCSNVLRGCLANOGDLDSEWNHFIDAM	295
Xenopus tropicalis	SSVNPTPQCVKAMLKMTYCPYCSGLVTVKPCNNYCLNVMRGCLANPGDLDTEWNNFIDAM	295
Rhinatrema_bivittatum	SAVNPTPPCHQALLKMMYCPFCRGLVTAKPCNNYCLNVMRGCLANLGDLETEWNNFIDST	294
	250260270280290300	
	*:*:*********	
Pavo muticus	LLVAERLEGPFNIESVMDPIDVKISDAIMNMQENSMQVSQKVFQGCGQPKTLAQGRSARS	357
Pavo cristatus	LLVAERLEGPFNIESVMDPIDVKISDAIMNMQENSMQVSQKVFQGCGQPKTLAQGRSARS	357
<del>_</del>		
Gallus_gallus	LLVAERLEGPFNIESVMDPIDVKISDAIMNMQENSMQVSQKVFQGCGQPKTLAQGRTARS	358
Anas_platyrhynchos	LLVAERLEGPFNIESVMDPIDVKISDAIMNMQENSMQVSQKVFQGCGQPKTLAQGRTARS	358
Chelonia_mydas	LMVAERLEGPFNIESVMDPIDVKISDAIMNMQENSVQVSQKVFQGCGQPKTLTQGRASRS	360
Homo_sapiens	LMVAERLEGPFNIESVMDPIDVKISDAIMNMQDNSVQVSQKVFQGCGPPKPLPAGRISRS	355
Pan troglodytes	LMVAERLEGPFNIESVMDPIDVKISDAIMNMQDNSVQVSQKVFQGCGPPKPLPAGRISRS	355
Macaca mulatta	LMVAERLEGPFNIESVMDPIDVKISDAIMNMQDNSVQVSQKVFQGCGPPKPLPAGRISRS	355
Callithrix jacchus	LMVAERLEGPFNIESVMDPIDVKISDAIMNMQDNSVQVSQKVFQGCGPPKPLPAGRVSRS	355
Heterocephalus_glaber	LMVAERLEGPFNIESVMDPIDVKISDAIMNMQENSVQVSQKVFQGCGPPKPFPAGRISRS	355
Mus_musculus	LMVAERLEGPFNIESVMDPIDVKISDAIMNMQDNSVQVSQKVFQGCGPPKPLPAGRISRS	355
Pteropus_alecto	LMVVERLEGPFNIESVMDPIDVKISDAIMNMQDNSVQVSQKVFQGCGPPKPLPAERISRS	355
Equus_caballus	LMVAERLEGPFNIESVMDPIDVKISDAIMNMQENSVQVSQKVFQGCGPPKPLPAGRITRS	355
Bos taurus	LMVAERLEGPFNIESVMDPIDVKISDAIMNMQENSVQVSQKVFQGCGPPKPLPAGRISRS	355
Ornithorhynchus_anatinus		355
Xenopus tropicalis	LLVAERLEGPFNIETVMDPIDVKISDAIMNMQENSMQVSQKVFQGCGQPKPLSQGRQARS	355
Rhinatrema bivittatum		
kninatrema_blvittatum	LMVAERLEGPFNIESVMDPIDVKISDAIMNMQENSMQVSQKVFHGCGQPKTLSQGRSSRS	354
	310320330340350360	

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Pavo muticus	VSEGGFSARFRPYNPEERPTTAAGTSLDRLVTDVKEKLKQAKKFWSSLPGNICSDEKISV	417
Pavo_cristatus	VSEGGFSARFRPYNPEERPTTAAGTSLDRLVTDVKEKLKQAKKFWSSLPGNICSDEKISV	417
Gallus_gallus	VSEGGFSARFRPYNPEERPTTAAGTSLDRLVTDVKEKLKQAKKFWSSLPGNICSDEKISV	418
Anas_platyrhynchos	VSESGFSARFRPYNPEERPTTAAGTSLDRLVTDVKEKLKQAKKFWSSLPGNICNDEKMSV	418
Chelonia_mydas	VSESGFSARFRPYNPEERPTTAAGTSLDRLVTDVKEKLKQAKKFWSSLPGNICNDEKMAA	420
Homo_sapiens	ISESAFSARFRPHHPEERPTTAAGTSLDRLVTDVKEKLKQAKKFWSSLPSNVCNDERMAA	415
Pan_troglodytes	ISESAFSARFRPHHPEERPTTAAGTSLDRLVTDVKEKLKQAKKFWSSLPSNVCNDERMAA	415
Macaca mulatta	ISESAFSARFRPHHPEERPTTAAGTSLDRLVTDVKEKLKQAKKFWSSLPSNVCNDERMAA	415
Callithrix_jacchus	ISESAFSARFRPHHPEERPTTAAGTSLDRLVTDVKEKLKQAKKFWSSLPSNVCNDERMAA	415
Heterocephalus_glaber	ISESAFSARFRPYH <mark>PEERPTTAAGTSLDRLVTDVKEKLKQAKK</mark> FWSSL <mark>PSNVCNDER</mark> MAA	415
Mus_musculus	ISESAFSARFRPYH <mark>PEQRPTTAAGTSLDRLVTDVKEKLKQAKK</mark> FWSSL <mark>P</mark> STVCNDERMAA	415
Pteropus_alecto	ISESAFSARFRPDHLEERPTTAAGTSLDRLVTDVKEKLKQAKKFWSSLPSNVCNDERMAA	415
Equus_caballus	LSESAFSARFRPYH <mark>PEERP</mark> TTAA <mark>GTSLDRLVTDVKEKLKQAKKFWSSLPSNVCNDER</mark> MAA	415
Bos_taurus	ISEGTFSARFRPFHPEERPTTAAGTSLDRLVTDVKEKLKQAKKFWSSLPSSVCNDERMAA	415
Ornithorhynchus_anatinus	VSESGFSARFRPYNPEERPTTAAGTSLDRLVTDVKEKLKQAKKFWSSLPSNVCNDEKMAA	415
Xenopus_tropicalis	VSDSNFNSRFRSYGPEERPTTAAGTSLDRLVADVKEKLKTAKKFWSSLPGSICKNN-WTS	414
Rhinatrema_bivittatum	VPEGGFSARFRPYNPEERPTTAAGTNLDRLVTDVKEKLKTAKKFWSSLPGSICSDE-VTA	413
	370380390400410420	
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Pavo muticus		477
Pavo_muticus Pavo cristatus	GTGNENECWNGSAKSRYDFAVTGNGLASOVNNPEVEVDITKPDMVIRROIMVLRVMTNKL GTGNENECWNGSAKSRYDFAVTGNGLASOVNNPEVEVDITKPDMVIRROIMVLRVMTNKL	477
Gallus gallus	GTGNENECWNGSAKSRYDFAVTGNGLASQVNNPEVEVDITKPDMVIRRQIMVLRVMTNKL	478
Anas platyrhynchos	GTVNENECWNGSAKSRYDFAVTGNGLASQVNNPEVEVDITKPDMVIRRQIMALRVMTNKL	478
Chelonia_mydas	GRVIEDECWNGSAKSRYVFAVTGNGLANQVNNPEVEVDITKPDMVIRQQIMALRVMTNKM	480
Homo_sapiens	GNGNEDDCWNGKGKSRYLFAVTGNGLANQGNNPEVQVDTSKPDILILRQIMALRVMTSKM	475
Pan_troglodytes	GNGNEDDCWNGKGKSRYLFAVTGNGLANQGNNPEVQVDTSKPDILILRQIMALRVMTSKM	475
Macaca mulatta	GNGNEDDCWNGKGKSRYLFAVTGNGLANQGNNPEVQVDTSKPDILILRQIMALRVMTSKM	475
Callithrix jacchus	GNSDEDDCWNGKGKSRYLFAVTGNGLANQGNNPEVQVDTSKPDILILRQIMALRVMTSKM	475
Heterocephalus_glaber	GNGNEDDCWNGKGKSRYLFAVTGNGLANQGNNPEVQVDTDKPDILILRQIMALRVMTSKM	475
Mus musculus	GNENEDDCWNGKGKSRYLFAVTGNGLANQGNNPEVQVDTSKPDILILRQIMALRVMTSKM	475
Pteropus alecto	GNGNEDDCWNGKGKSRYLFAVTGNGLANQVSNPEVQVDTSKPDILILRQIMALRVMTSKM	475
Equus_caballus	GNGNEDDCWNGKGKSRYLFAVTGNGLANQGNNPEVQVDTSKPDIVILRQIMALRVMTSKM	475
Bos taurus	GSGNEDDCWNGKGQSRYLFAVTGNGLANQGNNPEVQVDTSKPDILILRQVMALRVMTSKM	475
Ornithorhynchus anatinus	GNVNEDECWNGNAQSRYLFAVTGNGLANQGNNPEVEVDITKPDMVIRQQIMALRVMTIKM	475
Xenopus_tropicalis	G-ASEDDCWNGSEKSRYLYSVIGNGLASQANNPDVQVDITKPDMVIRQQIMALRIMTNKM	473
Rhinatrema_bivittatum	GDADEDKCWNGNATSRYLFPVTANGLANQAHNPDVEVDITKPNMVIRRQIMTLREMTHKM	473
	430440450460470480	
Pavo muticus	****.* **:*. :*.*** **** : : : : : : : :	534
Pavo_cristatus	KNAYSGNDVDFIDVSEESSGEESGSG-EFQQCSTEFEFNATEVTGNSNKSDKKMNTSA	534
Gallus_gallus	KNAYSGNDVDFIDVSEESSGEESGSGCEFQQCSTEFEFNATEVTGSSNKSDKKVNTSA	536
Anas platyrhynchos	KNAYSGNDVDFIDISEESSGEESGSGCEFQQCSPEFEFNATEVTGNSNKSDKKANTSA	536
Chelonia mydas	KNAYNGNDVDFLDISDESSGEGSGCEFQQCSPEFEFNVTEVTGKTNKIDKNTNTSA	538
Homo sapiens	KNAYNGNDVDFFDISDESSGEGSGSGCEYQQCPSEFDYNATDHAGKSANEKADSAG	531
Pan troglodytes	KNAYNGNDVDFFDISDESSGEGSGSGCEYQQCPSEFDYNATDHAGKSANEKADSAG	531
Macaca mulatta	KNAYNGNDVDFFDNSDESSGEGSGSGCEYQQCPSEFDYNATDHAGKSANEKADSAG	531
Callithrix_jacchus	KNAYNGNDVDFFDISDESSGEGSGSGCEYQQCPSEFDYNATDHSGKSANEKADSAG	531
Heterocephalus_glaber	KNAYNGNDVDFFDISDESSGEGSGSGCEYQQCPSEFEYNATDHAGKSANDKADSAG	531
Mus_musculus	KNAYNGNDVDFFDISDESSGEGSGSGCEYQQCPSEFEYNATDHSGKSANEKADSAGG-	532
Pteropus_alecto	KNAYNGNDVDFFDINDENSGEGSGSGCEYQQCPSELEYNATDHSGKSG-DKASYAD	530
Equus_caballus	KNAYNGNDVDFFDISDENSGEGSGSGCEYQQCPSEFEYNATDHSGKNANDKANSAS	531
Bos_taurus	KNAYNGNDVDFFDISDESSGEGSGSGCESQQCPSEFEYNATDHSGKSANDKASSAG	531
Ornithorhynchus_anatinus		533
Xenopus_tropicalis	KNAYNGNDVNFIDIVDESSGEGSGSGCEPPKCPGVDSGTTKVIEPKIKIINFNEKTPS	531
Rhinatrema_bivittatum	KNAYNGIDVDFV-ISEESSGEESGSGCDSDLQPCTSEFEFNGTEDAGKTQKGDKTLNIES	532
	490510520530540	

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Pavo_muticus	APSS-GLSQAALI	FLSILVLAV	<b>QRQWR</b>	559
Pavo_cristatus	A <mark>P</mark> SS- <mark>G</mark> LSQAALI	FLSILVLAM	QRQWR	559
Gallus_gallus	A <mark>P</mark> SS- <mark>G</mark> LSQAALI	FLSVLVLAM	QRQWR	561
Anas_platyrhynchos	A <mark>T</mark> SS- <mark>G</mark> LSQAALI	FLSILFLAM	QRQWR	561
Chelonia_mydas	AAASV <mark>G</mark> LSQAALI	<b>FFSILFLAM</b>	QRQWR	564
Homo_sapiens	-VR <mark>PG</mark> AQAYLL <mark>T</mark>	VFCILFLVM	<b>QREWR</b>	556
Pan_troglodytes	-VR <mark>PG</mark> AQAYLL <mark>T</mark>	VFCILFLVM	QREWR	556
Macaca_mulatta	-VR <mark>PG</mark> AQAYLL <mark>T</mark>	AFCILFLVM	QREWR	556
Callithrix_jacchus	-VR <mark>PG</mark> TQAYLL <mark>T</mark>	VFCILFLVM	<b>Q</b> REWR	556
Heterocephalus_glaber	-PRAAAQPYFLA	VFCVLFLVM	<b>QREW</b> S	556
Mus_musculus	-AHAEAK <mark>P</mark> YLLA	ALCILFLAV	<b>QGEWR</b>	557
Pteropus_alecto	-TCVRAQPYLLT			555
Equus_caballus	-AH <mark>PG</mark> AQ <mark>P</mark> YLLT	<b>IFCILFLVM</b>	QREWR	556
Bos_taurus	-VPAAAWPYLLP	VFCIL <mark>S</mark> LVM	<b>Q</b> REWR	556
Ornithorhynchus_anatinus	SASTV <mark>GP</mark> SRVAV:	IF <mark>G</mark> IMFLVM	QRQWR	559
Xenopus_tropicalis	AAATKSASL <mark>S</mark> VL:	I <mark>P</mark> SILFLVR	– – <mark>QW</mark> R	555
Rhinatrema_bivittatum	AATTT <mark>G</mark> LSRVVLI			557
	550	560.	• • • • •	