File: /media/morpheus/disk1/fst/pep\_msa/TM**D**aps Tue Feb 1 14:46:16 2022 Page 1 of 5

Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas		16 2 2
		30 30 59 42 59
Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris	QLFVAYRISPDLYLDVGEGSRCVRYQHQLLGGNIFSLTIQIKVEEKEDETEESSSEE	24 73 20 34
Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas	RHFIFVLDS <mark>SGG</mark> FVWE <mark>G</mark> LLSLVLQHYFEFQEMQISIDMQIQVEEKEDDTEESSSEE KLLIALGSTRSSKLAASTFNISLHHKQAWVSEKLRLPRETLVQIQMEEKEDDTEESSSEE KKVQIKVEEKEDETEESSSEE	58 62 24
	KRAKPRTRRGHARGRARHGGEEDGDDEDGTRKAGQRRQRNRRGRGRAGGNEGSDSEGKRAKPRTRRGHARGRARHGGEEDGDDEDGTRKAGQRRQRNRRGRGRAGGNEGSDSEGKRAKPRTRRGHARGRARHGGEEDGDDEDGTRRAGQRRQRNRRGRGRAGGNEGSDSEGKKAKPRTRRGHARGRARRGGEEDGDDEDEPRRPGHRRHRNRRGRGRAGGNEGSDSEGKKATPRTRRGHARGRARRGGEEDGDDEDEPRRPGHRRHRNRRGRGRAGGNEGSDSDG EKEKKVTAKTRRGNARGKARKDSEEEEETRTAGQHRQRNRRAQRKQAGNEDSDSDG	87 87 116 99 115
Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus	EEEVEDKLPRRESLRPKRKRTRDVINEDDPEPEPEDEETRKAREKERRR EEEEEGKLPRRESLRPKRKRTRDVINEDDPEPEPEDEETRKAREKERRR EEDKLPRRESLRPKRKRTRDVINEDDPEPEPEDEETRKAREKERRR EEEDKLPRRESLRPKRKRTRDVINEDDPEPEPEDEETRKAREKERRR	73 122 66 81
Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus	EEEE-NKLPRRQSLRPKRKRTRDVINEDDPEPEPEDEETRKAREKERRR EDKLPRRESLRPKRKRTRDVIREEDPEPEPEDEETRKARERERRR EEEEEDKLPRRESLRPKRKRTRDVINEDDPEPEPEDEETRKAREKERRR	106 107 73
Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas	DPTKARKNQANQKSKEDDEQEEDEKGGKSGKGKNEKKQDKKSDKKGKEKANKKKD DPTKARKNQANQKSKEDDEQEEDEKGGKSGKGKNEKKQDKKSDKKGKEKANKKKKD DPTKARKNQANQKSKEDDEQEEDEKGGKSGKGKNEKKQDKKADKKGKEKANKKKKD DPAKVKNKANQKSKEDGEEEEDGKGDKSGKGKNEKKQDKKADKKGKEKANKKKD DPAKVKNKANQKSKEDGEEEEDGKGDKSGKGKNEKKQDKKADKKGKEKANKKKD ESCKNKKNRENQISKQQEPNEDGEEDNKGGRKGRGKNETKQEKKPDEKGKKEKDNKKKDK130140150160170180	144 144 173 156 175
Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas	**: ** RLKRGAEEEE-IDEEELERLKAELDEKROIIATVKCKPWKMEKKIEVLKEAKKFV RLKRGAEEEEEIDEEELERLKAELDEKROMIATVKCKPWKMEKKIEVLKEAKKFV RLRRGAEEEEEIDEEELERLKALLDENROMIATVKCKPWKMEKKIEVLKEAKKFV RLRRGAEEEEEIDEEELERLKALLDENROMIATVKCKPWKMEKKIEVLKEAKKFV RLRGAEEEEEIDAEELERLKALLDENROMIATVKCKPWKMEKKIEVLKEAKKFV RLKRGAEEEEGIDVEELERLKAELDEKROMIATVKCKPWKMEKKIEVLKEAKKFV RLKRGAEEEEGIDVEELERLKAELDEKROMIATVKCKPWKMEKKIEVLKEAKKFV RLKRGA	127 177 121 136 26 161 162 85 15 204 204 233 216 235

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Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas	SENEGALGKGKGKRWFAFKMMMAKKWAKFLRDFENFKAACVPWENKIKAIESQFGSSVAS SENEGALGKGKGKKWFAFKMMMAKKWVKFLRDFENFKAACVPWENKIKAIESQFGSSVAS SENEGALGKGKGKKWFAFKMMMAKKWAKFLRDFENFKAACVPWENKIKAIESQFGSSVAS SENEGALGKGKGKKWFAFKMMMAKKWAKFLRDFENFKAACVPWENKIKAIESQFGSSVAS SENEGALGKGKGKKWFAFKMMMAKKWAKFLRDFENFKAACVPWENKIKAIESQFGSSVAS SENEGALGKGKGKQWFAFKMMMAKKWAKFLRDFENFKAACVPWENKIKAIESQFGSSVAS SENEGALGKGKGKQWFAFKMMMAKKWAKFLRDFENFKAACVPWENKIKAIESQFGSSVAS SENEGALGKGKGKQWFAFKMMMAKKWAKFLRDFENFKAACVPWENKIKAIESQFGSSVAS SENEGALGKGKGKGWFAFKMMMAKKWAKFLRDFENFKAACVPWENKIKAIESQFGSSVAS SENEGALGKGKGKGKWFAFKMMMAKKWAKFLRDFENFKAACVPWENKIKAIESQFGSSVAS SENEGALGKGKGKGKWFAFKMMMAKKWAKFLRDFENFKAACVPWENKIKAIESQFGSSVAS SENEGALGKGKGKKFYAYKVMMTKKWMKFQRDFENFKTACIPWEMKIKEIESHFGSSVAS EKFEGALGKGKGKKFYAYKVMMTKKWMKFQRDFENFKTACIPWEMKIKEIESHFGSSVAS EKFEGALGKGKGKKFYAYKVMMTKKWMKFQRDFENFKTACIPWEMKIKEIESHFGSSVAS EKFEGALGKGKGKKFYAYKVMMTKKWMKFQRDFENFKTACIPWEMKIKEIESHFGSSVAS EKFEGALGKGKGKKFYAYKVMMTKKWMKFQRDFENFKTACIPWEMKIKEIESHFGSSVAS EKFEGALGKGKGKKFYAYKVMMTKKWMKFQRDFENFKTACIPWEMKIKEIESHFGSSVAS EKFEGALGKGKGKKFYAYKVMMTKKWMKFQRDFENFKTACIPWEMKIKEIESHFGSSVAS EKFEGALGKGKGKKFYAYKVMMTKKWMKFQRDFENFKTACIPWEMKIKEIESHFGSSVAS EKFEGALGKGKGKKFYAYKVMMTKKWMKFQRDFENFKTACIPWEMKIKEIESHFGSSVAS OND SOND SOND SOND SOND SOND SOND SOND S	187 237 181 196 86 221 222 145 75 264 293 276 295
Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas	**:***********************************	247 297 241 256 146 281 282 205 135 324 353 336 355
Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas	*:************************************	307 357 301 316 206 341 342 265 195 384 413 396 415
Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas	DNTFNFSWKVFTSWDYLIGNPETADNKFNSITMNFKEAITEEKAAQVEENVHLIRFLRFL DNTFNFSWKVFTSWDYLIGNPETADNKFNSITMNFKEAITEEKAAQVEENVHLIRFLRFL DNTFNFSWKVFCSWDYLIGNPETADNKFNSITMNFKEAIIEERAAQVEENIHLIRFLRFL DNTFNFSWKVFCSWDYLIGNPETADNKFNSITMNFKEAIIEERAAQVEENIHLIRFLRFL DNTFNFSWKVFTSWDYLIGNPETADNKFNSITMNFKEAIIEERAAQVEENVHLIRFLRFL DNTFNFSWKVFTSWDYLIGNPETADNKFNSITMNFKEAIIEERAAQVEENVHLIRFLRFL ENTFNFSWKVFTSWDYLIGNPETADNKFNSITMNFKEAIIEERAAQVEENVHLIRFLRFL DNTFNFSWKVFTSWDYLIGNPETADNKFNSITMNFKEAIIEERAAQVEENVHLIRFLRFL DNAFNFSWKVFTSWDYLIGNPETADNKFNSITMNFKEAITEEKAAQVEENVHLIRFLRFL DNAFNFSWKVFTSWDYLIGNPETADNKFNSITMNFKEAITEERAAQVEENVHLIRFLRFL DTSFNFSWKMFTSWDYLIGNPETADNKFASITTSFKEAIVEEQESRKEENIHLTRFLRVL DTSFNFSWKMFTSWDYLIGNPETADNKFASITTSFKEAIVEEQESRKEENIHLTRFLRVL DTSFNFSWKMFTSWDYLIGNPETADNKFASITTSFKEAIVEEQESRKEENIHLTRFLRVL DTSFNFSWKMFTSWDYLIGNPETADNKFASITTSFKEAIVEEQESRKEENIHLTRFLRVL DTSFNFSWKMFTSWDYLIGNPETADNKFASITTSFKEAIVEEQESRKEENIHLTRFLRVL DTSFNFSWKMFTSWDYLIGNPETADNKFASITTSFKEAIVEEQESRKEENIHLTRFLRVL DTSFNFSWKMFTSWDYLIGNPETADNKFASITTSFKEAIVEEQESRKEENIHLTRFLRVL DTSFNFSWKMFTSWDYLIGNPETADNKFASITTSFKEAIVEEQENRKEENIHLTRFLRVL	367 417 361 376 266 401 402 325 255 444 473 456 475

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Homo sapiens	ANFFVFLTLGGSGYLIFWAVKRSQEFAQQDPDTLGWWEKNEMNMVMSLLGMFCPTLFDLF	427
Macaca_mulatta	ANFFVFLTLGGSGYLIFWAVKRSQEFAQQDPDTLGWWEKNEMNMVMSLLGMFCPTLFDLF	477
Mus_musculus	ANFFVFLTLGASGYLIFWAVKRSQEFAQQDPDTLGWWEKNEMNMVMSLLGMFCPTLFDLF	421
Rattus_norvegicus	ANFFVFLTLGASGYLIFWAVKRSQEFAQQDPDTLGWWEKNEMNMVMSLLGMFCPTLFDLF	436
Canis_lupus_familiaris	ANFFVFLTLGGSGYLIFWAVKRSQEFAQQDPDTLGWWEKNEMNMVMSLLGMFCPTLFDLF	326
Bos_taurus	ANFFVFLTLGGSGYLIFWAVKRSQEFAQQDPDTLGWWEKNEMNMVMSLLGMFCPTLFDLF	461
Heterocephalus_glaber	ANFFVFLTLGASGYLIFWAVKRSQEFAQQDPDTLGWWEKNEMNMVMSLLGMFCPTLFDLF	462
Pan_troglodytes	ANFFVFLTLGGSGYLIFWAVKRSQEFAQQDPDTLGWWEKNEMNMVMSLLGMFCPTLFDLF	385
Callithrix_jacchus	ANFFVFLTLGGSGYLIFWAVKRSQEFAQQDPDTLGWWEKNEMNMVMSLLGMFCPTLFDLF	315
Pavo_muticus	ANFLALCTLAGSGYLIFFVVRRSQKFALEGLENYGWWERNEVNMVMSLLGMFCPTLFDVI	504
Pavo_cristatus	ANFLALCTLAGSGYLIFFVVRRSQKFALEGLENYGWWERNEVNMVMSLLGMFCPTLFDVI	504
Gallus_gallus	ANFLALCTLAGSGYLIFFVVRRSQKFALEGLENYGWWERNEVNMVMSLLGMFCPTLFDVI	533
Anas_platyrhynchos	ANFLALCTLAGSGYLIFFVVRRSQKFALEGLENYGWWERNEVNMVMSLLGMFCPTLFDVI	516
Chelonia_mydas	ANFLALCTLAGSGYLIYFVVRRSQKFALEGLDNYGWWERNEVNMVMSLLGMFCPTLFDVI 490500510520530540	535
	. ** ** * ** * * *** ** ** ** * * * * *	
Homo sapiens	AELEDYHPLIALKWLLGRIFALLLGNLYVFILALMDEINNKIEEEKLVKANITLWEANMI	487
Macaca mulatta	AELEDYHPLIALKWLLGRIFALLLGNLYVFILALMDEINNKIEEEKLVKANITLWEANMI	537
Mus musculus	AELEDYHPLIALKWLLGRIFALLLGNLYVFILALMDEINNKIEEEKLVKANITLWEANMI	481
Rattus_norvegicus	AELEDYHPLIALKWLLGRIFALLLGNLYVFILALMDEINNKIEEEKLVKANITLWEANMI	496
Canis_lupus_familiaris	AELEDYHPLIALKWLL <mark>GR</mark> IFALLL <mark>GN</mark> LYVFILALMDEI <mark>NNK</mark> IEEEKLVKANITLWEANMI	386
Bos_taurus	AELEDYHPLIALKWLL <mark>GR</mark> IFALLL <mark>GN</mark> LYVFILALMDEI <mark>NNK</mark> IEEEKLVKANITLWEANMI	521
<pre>Heterocephalus_glaber</pre>	A <mark>ELEDYHP</mark> LIAL <mark>K</mark> WLL <mark>GR</mark> IFALLL <mark>GNLY</mark> VFILALMDEI <mark>NNK</mark> IEEEKLVKANITLWEANMI	522
Pan_troglodytes	AELEDYHPLIALKWLLGRIFALLLGNLYVFILALMDEINNKIEEEKLVKANITLWEANMI	445
Callithrix_jacchus	AELEDYHPLIALKWLLGRIFALLLGNLYVFILALMDEINNKIEEEKLVKANITLWEANMI	375
Pavo_muticus	SSLENYHPRIALRWQLGRIFALFLGNLYTFIIALMDEINLKLEEEKIVKYNMTIWEA	561
Pavo_cristatus	SSLENYH <mark>P</mark> RIALRWQLGRIFALFLGNLYTFIIALMDEINLKLEEEKIVKYNMTIWEA	561
Gallus_gallus	SSLENYH <mark>P</mark> RIALRWQLGRIFALFLGNLYTFIIALMDEINLKLEEEKIVKYNMTIWEA	590
Anas_platyrhynchos	SSLENYH <mark>P</mark> RIALRWQLGRIFALFLGNLYTFIIALMDEINLKLEEEKIVKYNMTIWEA	573
Chelonia_mydas	SSLENYHPRIALRWQLGRIFALFLGNLYTFIIALMDEINLKLEEEKIVKYNMTIWEA	592
	550560570580590600	
Heme ganiens	** : : * * : * * * * * * * * * * * * *	E 1 1
Homo_sapiens	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF	544
Macaca_mulatta	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF	594
Macaca_mulatta Mus_musculus	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGLSGNTTGAPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF	594 541
Macaca_mulatta Mus_musculus Rattus_norvegicus	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGLSGNTTGAPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF	594 541 553
Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGLSGNTTGAPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLTGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF	594 541 553 443
Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGLSGNTTGAPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLTGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLAGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF	594 541 553 443 578
Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLTGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLAGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLAENTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF	594 541 553 443 578 579
Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLTGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLAGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLAENTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLSENTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF	594 541 553 443 578 579 502
Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGLSGNTTGAPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLTGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLAGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLSENTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGSPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF	594 541 553 443 578 579
Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLTGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLAGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLAENTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLSENTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF	594 541 553 443 578 579 502 432
Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGLSGNTTGAPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLTGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLAGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLSENTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGSPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF	594 541 553 443 578 579 502 432 618
Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGLSGNTTGAPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLTGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLAGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLSENTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGSPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF	594 541 553 443 578 579 502 432 618 647 630
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Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGLSGNTTGAPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLIGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLIGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLSENTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGSPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGSPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTISENATAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTISENATAPPIQVDPADIPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTISENATAPPIQVDPADIPRGPCWETMVGQEFVRLTUSDTMTTYITILIGDF LYNGTISENATAPPIQVDPADIPRGPCWETMVGQEFVRLTUSDTMTTYITILIGDF LYNGTISENATAPPIQVDPADIPRGPCWETMVGQEFVRLTUSDTMTTYITILIGDF LYNGTISENATAPPIQVDPADIPRGPCWETMVGQEFVRLTUSDTMTTYITILIGDF LYNGTISENATAPPIQVDPADIPRGPCWETMVGQEFVRLTUSDTMTTYITILIGDF LYNGTISENATAPPIQVDPADIPRGPCWETMVGQEFVRLTUSDTMTTYITILIGDF LYNGTISENATAPPIQVDPADIPRGPCWETMVGQEFVRLTUSDTMTTYITILIGDF LACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR LRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR LRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR LRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR LRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR LRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR	594 541 553 443 578 579 502 432 618 647 630 649
Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris	KAYNASFS ENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFS ENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGLSGNTTGAPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLS GNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLI GNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLA GNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLS ENTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFS ENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFS ENSTGSPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF SLYNGTIP ENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITLIGDF SLYNGTIS ENATAPPIQVDPADIPRGPCWETMVGQEFVRLTVSDTMTTYITLIGDF SLYNGTIS ENATAPPIQVDPADIPRGPCWETMVGQEFVRLTVSDTMTTYITLIGDF SLYNGTIS ENATAPPIQVDPADIPRGPCWETMVGQEFVRLTVSDTMTTYITLIGDF LRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR LRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR LRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR LRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR LRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR LRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR LRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR LRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR	594 541 553 443 578 579 502 432 618 647 630 649 604 654 601 613 503
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Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus	KAYNASFS ENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFS ENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLS ENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESL S GNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLT GNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLA GNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLS ENTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLS ENTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFS ENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFS ENSTGSPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFS ENSTGSPFFVHPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIP ENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIP ENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIP ENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIP ENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIS ENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIS ENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIS ENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIS ENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIS ENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTTSDTMTTYITILIGDF SLYNGTIS ENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTTVSDTMTTYITILIGDF SLYNGTIS ENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIS	594 541 553 443 578 579 502 432 618 647 630 649 604 651 613 503 639 562 492
Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGLSGNTTGAPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLTGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLAGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLAGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLSENSTGPFFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTISENATAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTISENATAPPIQVDPADIPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIS	594 541 553 443 578 579 502 432 618 647 630 649 604 654 601 613 5038 639 502 492 678 707
Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGLSGNTTGAPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGNTTGAPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLSGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLIGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLAGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTISENATAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTISENATAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTISENATAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF LRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR LRACFVRFCNYCWCWDLEYGFPSYSEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILR LRACFVRFCNYCWCWDLEYGFPSYSEFDISGNVLALIFNQGMIWMGSFFAPSLPGINIVFR LRAVFVRFFNYCWCWDLEYGFPSYSEFDISGNVLGLIFNQGMIWMGSFYAPCLPAINVFR LRAVFVRFFNYCWCWDLEYGFPSYSEFDISGN	594 541 553 443 578 579 502 432 618 647 630 649 604 654 601 613 503 638 639 562 492 678
Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus	KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGLSGNTTGAPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNESLSGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLTGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLAGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLAGNTTGPPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASLSENSTGPFFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF KAYNASFSENSTGPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIPENSTAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTISENATAPPIQVDPADVPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTISENATAPPIQVDPADIPRGPCWETMVGQEFVRLTVSDTMTTYITILIGDF SLYNGTIS	594 541 553 443 578 579 502 432 618 647 630 649 604 654 601 613 5038 639 502 492 678 707

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Homo sapiens	LHTSMYFQCWAVMCCNVPEARVFKASRSNNFYLGMLLLILFLSTMPVLYMIVSLPPSFDC	664
Macaca_mulatta	LHTSMYFQCWAVMCCNVPEARVFKASRSNNFYLGMLLLILFLSTMPVLYMIVSLPPSFDC	714
Mus musculus	LHTSMYFQCWAVMCCNVPEARVFKASRSNNFYLGMLLLILFLSTMPVLYMIVSLPPSFDC	661
Rattus norvegicus	LHTSMYF <mark>OC</mark> WAVMCCNVPEARVFKASRSNNFYLGMLLLILFLSTMPVLYMIVSLPPSFDC	673
Canis_lupus_familiaris	LHTSMYF <mark>QC</mark> WAVMCCNV <mark>PEAR</mark> VF <mark>KASRSNN</mark> FYL <mark>G</mark> MLLLILFL <mark>STMP</mark> VLYMIVSL <mark>PPS</mark> FDC	563
Bos_taurus	LHTSMYFQCWAVMCCNVPEARVFKASRSNNFYLGMLLLILFLSTMPVLYMIVSLPPSFDC	698
Heterocephalus_glaber	LHTSMYFQCWAVMCCNVPEARVFKASRSNNFYLSMLLLILFLSTMPVLYMIVSLPPSFDC	699
Pan_troglodytes	LHTSMYFQCWAVMCCNVPEARVFKASRSNNFYLGMLLLILFLSTMPVLYMIVSLPPSFDC	622
Callithrix_jacchus	LHTSMYFQCWAVMCCNV <mark>PEAR</mark> VF <mark>KASRSNN</mark> FYLGMLLLILFL <mark>STMP</mark> VLYMIV <mark>S</mark> L <mark>PPS</mark> FDC	552
Pavo_muticus	LHTSMYLQCWAVMCCNVPQERVFKASRSNNFYMAMLLFILFLSTLPAVYTIVSIPPSFDC	738
Pavo_cristatus	LHTSMYLQCWAVMCCNVPQERVFKASRSNNFYMAMLLFILFLSTLPAVYTIVSIPPSFDC	738
Gallus_gallus	LHTSMYLQCWAVMCCNVPQERVFKASRSNNFYMAMLLFILFLSTLPAVYTIVSIPPSFDC	767
Anas_platyrhynchos	LHTSMYLQCWAVMCCNVPQERVFKASRSNNFYMAMLLFILFLSTLPAVYTIVSIPPSFDC	750
Chelonia_mydas	LHTSMYLQCWAVMCCNVPHERVFKASRSNNFYMAMLLFILFLSTLPAVYTIVSIPPSFDC	769
	730740750760770780	
	****** ***** **** *** *** * * * * * * *	704
Homo_sapiens	GPFSGKNRMFEVIGETLEHDFPSWMAKILRQLSNPGLVIAVILVMVLAIYYLNATAKGQK	724
Macaca_mulatta	GPFSGKNRMFEVIGETLEHDFPSWMAKILRQLSNPGLVIAVILVMVLTIYYLNATAKGQK	774 721
Mus_musculus Rattus_norvegicus	GPFSGKNRMFEVIGETLEHDFPSWMAKILROLSNPGLVIAVILVMVLTIYYLNATAKGOK GPFSGKNRMFEVIGETLEHDFPSWMAKILROLSNPGLVIAVILVMVLTIYYLNATAKGOK	733
Canis_lupus_familiaris	GPFSGKNRMFEVIGETLEHDFPSWMAKILROLSNPGLVIAVVLVMALTIYYLNATAKGOK	623
Bos taurus	GPFSGKNRMFEVIGETLEHDFPSWMAKILRQLSNPGLVIAVVLVMALTIYYLNATAKGQK	758
Heterocephalus_glaber	GPFSGKNRMFEVIGETLEHDFPSWMAKILRQLSNPGLVIAVVLVMALTIYYLNATAKGQK	759
Pan_troglodytes	GPFSGKNRMFEVIGETLEHDFPSWMAKILROLSNPGLVIAVILVMILAIYYLNATAKGOK	682
Callithrix_jacchus	GPFSGKNRMFEVIGETLEHDFPSWMAKILRQLSNPGLVIAVILVMVLTIYYLNATAKGQK	612
Pavo muticus	GPFSGKTRMFEVISETLEHDFPSWFGKVFGYASNPGLILPFILLMVLSIYYLNATSKSYK	798
Pavo_cristatus	GPFSGKTRMFEVISETLEHDFPSWFGKVFGYASNPGLILPFILLMVLSIYYLNATSKSYK	798
Gallus_gallus	GPFSGKTRMFEVISETLEHDFPSWFGKVFGYASNPGLILPFILLMVLSIYYLNATSKSYK	827
Anas_platyrhynchos	GPFSGKTRMFEVISETLEHDFPSWFGKVFGYASNPGLILPFILLMVLSIYYLNATSKSYK	810
Chelonia mydas	GPFSGKTRMFEVISETLENDFPSWFGKVFSYASNPGLILPFILLMVLSIYYLNATSKSYK	829
<u></u>	790800810820830840	
Yama ganiana	***:***::  AANLDLKKKMKMQALENKMRNKKMAAARAAAAAGRQ	760
Homo_sapiens Macaca_mulatta		700
Macaca mulatta	A ANT DE LEGICATION A E CANTENCIA (A A A A A A A A A A A A A A A A A A	
	AANLDLKKKMKMQALENKMRNKKMAAARAAAAAGGQ	810
Mus_musculus	AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ	810 757
Mus_musculus Rattus_norvegicus	AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ	810 757 769
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris	AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ	810 757 769 659
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus	AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ	810 757 769 659 794
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber	AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ	810 757 769 659 794 794
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes	AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMAARAAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKMQALENKMRNKKMTAARAAAAGGQ AANLDLKKKMKMQALENKMRNKKMTSEKVHFALLFKSNA	810 757 769 659 794 794 721
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus	AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA	810 757 769 659 794 794 721 651
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus	AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA	810 757 769 659 794 794 721 651 858
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus	AANLDLKKKKKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKKKQQALENKMRNKKMAAARAAAAAAGGQ AANLDLKKKKKQQALENKMRNKKMAAARAAAAAAGGQ AANLDLKKKKKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKKKKQQALENKMRNKKMT	810 757 769 659 794 794 721 651
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus	AANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA	810 757 769 659 794 721 651 858 858
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus	AANLDLKKKKÇQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKKKQQALENKMRNKKMA	810 757 769 659 794 721 651 858 858 887
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos	AANLDLKKKKÇQALENKMRNKKMAAARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA	810 757 769 659 794 721 651 858 858 887 870
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens	AANLDLKKKMKQQALENKMRNKKMA	810 757 769 659 794 721 651 858 858 870 885
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta	AANLDLKKKKQQALENKMRNKKMA	810 757 769 659 794 721 651 858 858 870 885
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus	AANLDLKKKKQQALENKMRNKKMA	810 757 769 659 794 721 651 858 858 887 870 885
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus	AANLDLKKKKQQALENKMRNKKMA	810 757 769 659 794 721 651 858 858 870 885 760 810 757 769
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris	AANLDLKKKKQQALENKMRNKKMA	810 757 769 659 794 721 651 858 858 887 870 885
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus	AANLDLKKKMKQQALENKMRNKKMA	810 757 769 659 794 721 651 858 858 870 885 760 810 757 769 659 794
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber	AANLDLKKKMKQQALENKMRNKKMA	810 757 769 659 794 721 651 858 858 870 885 760 810 757 769 659 794
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes	AANLDLKKKMKQQALENKMRNKKMA AARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA AARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA AARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA AARAAAAAGGQ AANLDLKKKMKMQALENKMRNKKMA AARAAAAAGGQ AANLDLKKKMKMQALENKMRNKKMT AARAAAAGGQ AANLDLKKKMKMQALENKMRNKKMT AARAAAAGGQ AANLDLKKKMKMQALENKMRNKKMA AANLDLKKKMKMQALENKMRNKKMA AANLDLKKKMKMQALENKMRNKKMA AANLDLKKKMKMQALENKMRNKKMA AANLDLKKKMKMQALENKMRNKKMA AANLDLKKKMKMQALENKMRNKKMA AANLDLKKKKLQSQAEENKRRNKQKAQKSNEQEENPFETEPPQSKQKGGKQDESTANQDNK EANLELKKKLQSQAEENKRRNKQKAQKSNEQEENPFETEPPQSKQKGGKQDESTANQDNK EANLELKKKLQSQAEENKRRNKQKAQKSNEQEENPFETEPPQTKQKGSKQDESTPSKDNN EANLDLKKKLQSQAEENKRRNKQKAQKSNEQEENPFETEPPQTKQKGSKQDESTPSKDNN EANLDLKKKLQSQAEENKRRNKQKAQQSREMEENSLEAKP KQQGSKQD-SAADQGTQ 850 850 860 870 880 890 900	810 757 769 659 794 721 651 858 858 887 870 885 760 810 757 769 659 794 740
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus	AANLDLKKKMKQQALENKMRNKKMA	810 757 769 659 794 721 651 858 858 870 885 760 810 757 769 659 794 740 669
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus	AANLDLKKKMKQQALENKMRNKKMA AARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA AARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA AARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA AARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA AARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA AARAAAAGGQ AANLDLKKKMKMQALENKMRNKKMT AARAAAAGGQ AANLDLKKKMKMQALENKMRNKKMT AARAAAAGGQ AANLDLKKKMKMQALENKMRNKKMA AANLDLKKKMKMQALENKMRNKKMA AANLDLKKKMKMQALENKMRNKKMA AANLDLKKKKMKMQALENKMRNKKMA AANLDLKKKKLQSQAEENKRRNKQKAQKSNEQEENPFETEPPQSKQKGGKQDESTANQDNK EANLELKKKLQSQAEENKRRNKQKAQKSNEQEENPFETEPPQSKQKGGKQDESTANQDNK EANLELKKKLQSQAEENKRRNKQKAQKSNEQEENPFETEPPQSKQKGGKQDESAANQDNK EANLELKKKLQSQAEENKRRNKQKAQKSNEQEENPFETEPPQTKQKGGKQDESTPSKDNN EANLDLKKKLQSQAEENKRRNKQKAQQSREMEENSLEAKPKQQGSKQD-SAADQGTQ850860870880890900	810 757 769 659 794 721 651 858 858 870 885 760 810 757 769 659 794 740 669 914
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus	AANLDLKKKMKQQALENKMRNKKMA AARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA AARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA AARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA AARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA AARAAAAAGGQ AANLDLKKKMKQQALENKMRNKKMA AARAAAAGGQ AANLDLKKKMKMQALENKMRNKKMA AARAAAAGGQ AANLDLKKKMKMQALENKMRNKKMA AARAAAAGGQ AANLDLKKKMKMQALENKMRNKKMA AARAAAHISRFMQPP EANLELKKKLQSQAEENKRRNKQKAQKSNEQEENPFETEPPQSKQKGGKQDESTANQDNK EANLELKKKLQSQAEENKRRNKQKAQKSNEQEENPFETEPPQSKQKGGKQDESTANQDNK EANLELKKKLQSQAEENKRRNKQKAQKSNEQEENPFETEPPQSKQKGGKQDESAANQDNK EANLELKKKLQSQAEENKRRNKQKAQKSNEQEENPFETEPPQTKQKGSKQDESTPSKDNN EANLDLKKKLQSQAEENKRNKQKAQKSNEQEENPFETEPPQTKQKGSKQDESTPSKDNN EANLDLKKKLQSQAEENKRNKQKAQQSREMEENSLEAKP KQQGSKQD-SAADQGTQ850860870880890900	810 757 769 659 794 721 651 858 858 870 885 760 757 769 659 794 740 669 914 914
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus	AANLDLKKKMKQQALENKMRNKKMA	810 757 769 794 721 651 858 858 870 885 760 757 769 794 740 669 914 945
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos	AANLDLKKKMKQQALENKMRNKKMA	810 757 769 794 721 651 858 858 870 885 760 757 769 794 740 669 914 945 925
Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas  Homo_sapiens Macaca_mulatta Mus_musculus Rattus_norvegicus Canis_lupus_familiaris Bos_taurus Heterocephalus_glaber Pan_troglodytes Callithrix_jacchus Pavo_muticus Pavo_cristatus Gallus_gallus	AANLDLKKKMKQQALENKMRNKKMA	810 757 769 794 721 651 858 858 870 885 760 757 769 794 740 669 914 945

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Homo_sapiens		760
Macaca_mulatta		810
Mus_musculus		757
Rattus norvegicus		769
Canis_lupus_familiaris		659
Bos_taurus		794
Heterocephalus_glaber		794
Pan_troglodytes		740
Callithrix_jacchus		669
Pavo_muticus	RGYAAPGYPPGHPRFPGVQPGMPRGPTHYR-	944
Pavo_cristatus	RGYAAPGYPPGHPRFPGVQPGMPRGPTHYR-	944
Gallus_gallus	SGYAAPGYPPGHPRFPGVQPGMPRGPPHYR-	975
Anas_platyrhynchos	RGVATPGYPLGHPHFPGVQPGMPRGPPHFR-	955
Chelonia_mydas	RGYGMPGYSPRNPRFEGFPGGHPRMPRGTPNYRQ	974
	970980990	