

CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

File: /media/morpheus/disk1/fst/pep_msa/SYK**Date: Tue Feb 1 14:41:45 2022**

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	. * . : * . : * . : * . : * . : * . : * . : * . : * . : * . : * . : * . : * . : * . : *	
Pavo_muticus	MASN-MASPASHLPYFFGNITREEAE EYLMOGGMSDGLYLLRQSRNYLGGFALS LAYGRK	59
Pavo_cristatus	MASN-MASPAHLPYFFGNITREEAE EYLMOGGMSDGLYLLRQSRNYLGGFALS LAYGRK	59
Gallus_gallus	MASN-MANPANHLPYFFGNITREEAE EYLMOGGMSDGLYLLRQSRNYLGGFALS LAYGRK	59
Chelonia_mydas	MAAN-MANSANHLPYFFGNITREEAE DYLMOGLSDGLYLLRQSRNFLGGFALS LAHGRK	59
Homo_sapiens	MASSGMADSANHL PFFFFGNITREEAED YLVGGMSDGLYLLRQSRNYLGGFALS VAHGRK	60
Pan_troglodytes	MASSGMADSANHL PFFFFGNITREEAED YLVGGMSDGLYLLRQSRNYLGGFALS VAHGKK	60
Macaca_mulatta	MASSGMADNANHLPFFFFGNITREEAED YLVGGMSDGLYLLRQSRNYLGGFALS VAHGRK	60
Callithrix_jacchus	MASSSMADSANHL PFFFFGNITREEAED YLVGGMSDGLYLLRQSRNYLGGFALS VAHGRK	60
Mus_musculus	MAGS-AVD SANHLT YFFGNITREEAED YLVGGMTDGLYLLRQSRNYLGGFALS VAHNRR	59
Rattus_norvegicus	MAGN-AVDNANHLT YFFGNITREEAED YLVGGMTDGLYLLRQSRNYLGGFALS VAHNRR	59
Heterocephalus_glaber	MAGT-AADNANHLPFFYGNITREEAED YLVGGMTDGLYLLRQSRNYLGGFALS VAHGRK	59
Bos_taurus	-----MGDGANNLPFFFFGNITREEAED YLVGGMSDGLYLLRQSRNYLGGFALS VAHDRK	55
Equus caballus	MAGG-TADGANNLPFFFFGNITREEAED YLVGGMSDGLYLLRQSRNYLGGFALS VAHGRK	59
Canis_lupus_familiaris	MAGS-TADS ANHLPFFFFGNITREEAED YLVGGMSDGLYLLRQSRNYLGGFALS VAHGRK	59
Rhinatrema_bivittatum	-----MADI ANHLPFFYGNITREEAED YLHQGRMSNGLYLLRQSRSYLGGFALS VAYEKK	55
Latimeria_chalumnae	-----MADNANHLT YFYGSITREEAE FLROGGMSDGLFLLRQSRNYLGGFALS VAHGKK	55
Xenopus_tropicalis	-----MADIAQNLPFFYGNITRESE DYLROAGAADGLYLLRQSRSYLGGYALS VAHGRH	55
	1.....10.....20.....30.....40.....50.....60	

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Pavo_muticus	VHHYTIERELSGTYAIAAGKSHASPAELINYHSEADGLICLLRKSFNRPPIEPKTGPF	119
Pavo_cristatus	VHHYTIERELSGTYAIAAGKSHASPAELINYHSEADGLICLLRKSFNRPPIEPKTGPF	119
Gallus_gallus	VHHYTIERELSGTYAIAAGKSHASPAELINYHSEADGLICLLRKSFNRPPIEPKTGPF	119
Chelonia_mydas	VHHYTIERELSGFYAIAAGKSHMSPAELINYHSEADGLVCLLRPCNRPPIEPKTGPF	119
Homo_sapiens	AHHYTIERELNGTYAIAAGRTHSPADLCHYHSQESDGLVCLLKKPFNRPQGVOPKTGPF	120
Pan_troglodytes	AHHYTIERELNGTYAIAAGRTHSPADLCHYHSQESDGLVCLLKKPFNRPQGVOPKTGPF	120
Macaca_mulatta	AHHYTIERELNGTYAIAAGRTHSPADLCHYHSQESDGLVCLLKKPFNRPQGVOPKTGPF	120
Callithrix_jacchus	AHHYTIERELNGTYAIAAGRTHSPADLCHYHSQESDGLVCLLKKPFNRPQGVOPKTGPF	120
Mus_musculus	AHHYTIERELNGTYAISGGRAHASPADLCHYHSQEPDGLICLLKKPFNRPPIEPKTGPF	119
Rattus_norvegicus	AHHYTIERELNGTYAISGGRAHASPADLCHYHSQEPGLVCLLKKPFNRPPIEPKTGPF	119
Heterocephalus_glaber	AHHYTIERELNGTYAISGGRTHSPADLCHYHSQESDGLVCLLTKPCNRPPIEPKTGPF	119
Bos_taurus	AHHYTIERELNGTYAITGGRAHGPSAELCHYHTQELDGLVCLLKKPFNRPPIEPKTGPF	115
Equus_caballus	AHHYTIERELNGTYAIAAGRTHSPAELCHYHSQESDGLVCLLTKPCNRPPIEPKTGPF	119
Canis_lupus_familiaris	AHHYTIERELNGTYAIAAGRTHGPSAELCHYHSQESDGLVCLLKKPFNRPPIEPKTGPF	119
Rhinatrema_bivittatum	CHHYMIEREMSGTYAISGGKSHVSPSDDLNYHTQETDGFVCLLRTPCNRPPIEPKTGPF	115
Latimeria_chalumnae	FYHYTIERELSGTYAITGGKSHSTPADICEYHSQDPGGLICLLKKPCNRPPIEPKTGPF	115
Xenopus_tropicalis	FYHYTIERELNGTYAISGGISHSPAELCHYHTLESGLVCLLKKPCNRLPPIEPKTGPF	115
70.....80.....90.....100.....110.....120	

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Pavo_muticus	EDLKENLIREYVKQTWNLOGHALEQAIISQKPOLEKLIATTAAHEKMPWFHGRISRESEH	179
Pavo_cristatus	EDLKENLIREYVKQTWNLOGHALEQAIISQKPOLEKLIATTAAHEKMPWFHGRISRESEH	179
Gallus_gallus	EDLKENLIREYVKQTWNLOGHALEQAIISQKPOLEKLIATTAAHEKMPWFHGRISRESEH	179
Chelonia_mydas	EDLKETLIREYVKQTWNLOGNALEQAIISQKPOLEKLIATTAAHEKMPWFHEKISRESEH	179
Homo_sapiens	EDLKENLIREYVKQTWNLOGALEQAIISQKPOLEKLIATTAAHEKMPWFHGKISRESEH	180
Pan_troglodytes	EDLKENLIREYVKQTWNLOGALEQAIISQKPOLEKLIATTAAHEKMPWFHGKISRESEH	180
Macaca_mulatta	EDLKENLIREYVKQTWNLOGALEQAIISQKPOLEKLIATTAAHEKMPWFHGKISRESEH	180
Callithrix_jacchus	EDLKENLIREYVKQTWNLOGALEQAIISQKPOLEKLIATTAAHEKMPWFHGRITRESEH	180
Mus_musculus	EDLKENLIREYVKQTWNLOGALEQAIISQKPOLEKLIATTAAHEKMPWFHGNISRDESEH	179
Rattus_norvegicus	EDLKENLIREYVKQTWNLOGALEQAIISQKPOLEKLIATTAAHEKMPWFHGNISRDESEH	179
Heterocephalus_glaber	EDLKENLIREYVKQTWNLOGALEQAIISQKPOLEKLIATTAAHEKMPWFHGNISRGSEH	179
Bos_taurus	EDLKENLIREYVKQTWNLOGALEQAIISQKPOLEKLIATTAAHEKMPWFHGKISRDESEH	175
Equus_caballus	EDLKENLIREYVKQTWNLOGALEQAIISQKPOLEKLIATTAAHEKMPWFHGKISRDESEH	179
Canis_lupus_familiaris	EDLKESLIREYVKQTWNLOGALEQAIISQKPOLEKLIATTAAHEKMPWFHGKISRVESEH	179
Rhinatrema_bivittatum	EDLKENMIREYVKQIWNLOGALEQAIISQKPOLEKLIATTAAHEKMTWFHGRISRESEH	175
Latimeria_chalumnae	EDLKEQMIREYVROTWGLLGDALQAIISQKPOLEKLIATTAAHEKMPWFHGKISRDESEH	175
Xenopus_tropicalis	EDLKEHLIREYVHOTWNLOGALEQAIISQKPOLEKLIATTAAHEKMPWFHGRISRESEH	175

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Pavo_muticus      RILIGSRNNGKFLIRERDSNGSYALCLLNDGKVLHYRIDRDKTGKLSIPDGKRFDTLWQL 239
Pavo_cristatus    RILIGSRNNGKFLIRERDSNGSYALCLLNDGKVLHYRIDRDKTGKLSIPDGKRFDTLWQL 239
Gallus_gallus     RILIGSRNNGKFLIRERDSNGSYALCLLNDGKVLHYRIDRDKTGKLSIPDGKRFDTLWQL 239
Chelonia_mydas    RVLLGTRTNGKFLIRERDNNGSYALCLLSEGVLYHYRIDRDKTGKLSIPDGKKFDTLWQL 239
Homo_sapiens      IVLIGSKTNGKFLIRARDNNGSYALCLLHEGKVLHYRIDKDKTGKLSIPEGKKFDTLWQL 240
Pan_troglodytes   IVLIGSKTNGKFLIRARDNNGSYALCLLHEGKVLHYRIDKDKTGKLSIPEGKKFDTLWQL 240
Macaca_mulatta    IVLIGSKTNGKFLIRARDNNGSYALCLLHEGKVLHYRIDKDKTGKLSIPEGKKFDTLWQL 240
Callithrix_jacchus IVLIGSKTNGKFLIRARDNNGSYALCLLHEGKVLHYRIDKDKTGKLSIPEGKKFDTLWQL 240
Mus_musculus      TVLIGSKTNGKFLIRARDNNGSYALCLLHEGKVLHYRIDRDKTGKLSIPEGKKFDTLWQL 239
Rattus_norvegicus TVLIGSKTNGKFLIRARDNNGSFALCLLHEGKVLHYRIDRDKTGKLSIPEGKKFDTLWQL 239
Heterocephalus_glaber IVLIGSKTDGKFLIRARDNNGSYALCLLHEGKVLHYRIDKDKTGKLSIPEGKKFDTLWQL 239
Bos_taurus        IVLIGSKTNGKFLIRAKDN--GSYALCLLHEGKVLHYRIDKDKTGKLSIPGGKNFDTLWQL 234
Equus_caballus    VVLIGSKINGKFLIRARDNNGSYALCLLHEGKVLHYRIDKDKTGKLSIPDGKKFDTLWQL 239
Canis_lupus_familiaris IVMIGSKTNGKFLIRDRDNNGSYALCLLHEGKVLHYRIDKDKTGKLSIPDGKKFDTLWQL 239
Rhinatrema_bivittatum FILLGSKNNGKFLIREKDNGSYALCLLSEGVLYHYLIEKDKTGKLSIRSGKKFDTLWQL 235
Latimeria_chalumnae RIFVQGKINGKFLIRERDNNSYALCLLHESKVLHYRIDRDKTGKLSIPDGKKFDTLWQL 235
Xenopus_tropicalis LLISGVKSNNGSFLIRERDNNGSYALCLLHDKRISHYRIDRDKTGKLSIPDGKKFDTLWQL 235
.....190.....200.....210.....220.....230.....240

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Pavo_muticus      VEHYSYKPDGLLRVLVIPCPRH--GSESDNVVFDTR--PLPGTPSKSWARGGIISRLKSYT 296
Pavo_cristatus    VEHYSYKPDGLLRVLVIPCPRH--GSESDNVVFDTR--PLPGTPSKSWARGGIISRLKSYT 296
Gallus_gallus     VEHYSYKPDGLLRVLVIPCPRH--GSESDNVVFDTR--PLPGTPSKSWARGGIISRLKSYT 296
Chelonia_mydas    VEHYSYKPDGLQRLVTIPCARL--GSEANIIIFDTRPPPLPGTHPKTWSTGGIISRLKSYT 298
Homo_sapiens      VEHYSYKADGLLRVLTVPCQKI--GTQG--NVNFGGRPQLPGSHPATWSAGGIISRIKSYS 297
Pan_troglodytes   VEHYSYKADGLLRVLTVPCQKI--GTQG--NVNFGGRPQLPGSHPATWSAGGIISRIKSYS 297
Macaca_mulatta    VEHYSYKADGLLRVLTVPCQKI--GTQG--NVNFGGRPQLPGSHPATWSAGGIISRIKSYS 297
Callithrix_jacchus VEHYSYKADGLLRVLTVPCQKI--GLPAGNNVHFVGGRPQLPGSHPATWSAGGIISRIKSYS 299
Mus_musculus      VEHYSYKPDGLLRVLTVPCQKI--GAQM-----GHPGSPNAHPVTWSPGGIISRIKSYS 291
Rattus_norvegicus VEHYSYKPDGLLRVLTVPCQKI--GVQM-----GHPGSPNAHPVTWSPGGIISRIKSYS 291
Heterocephalus_glaber VEHYSYKPDGLLRVLTVPCQKI--GAQA-----AHPQSS--SLATWSAGGIISRLKSYS 289
Bos_taurus        VEHYSYKSDGLLRVLTVPCQKI--GGQSG--NINF--RPQLPSSHPGTWSAGGIISRIKSYS 290
Equus_caballus    VEHYSYKADGLLRVLTVPCQKI--GGQTG--NINFVGGRPQLPSSHPATWSAGGIISRIKSYS 297
Canis_lupus_familiaris VEHYSYKPDGLLRVLTVPCQKI--GGQPG--NINFGARAPLPGAHPATWSAGGIISRIKSYT 297
Rhinatrema_bivittatum VEHYSYKADGLERVLTFPCPOL--GLNN-----SKIDFSI 268
Latimeria_chalumnae VEHYSYKPDGLFRVLTEPCDRP--DAAGN----HDIESRPRLPDRRQLTNGGIISRIKSYT 290
Xenopus_tropicalis VEHYSYKPDGLLRVLTEPCPRATGHSESFIFKRAPCPAPPTQHQMWSAGGIISRFKSYS 295
.....250.....260.....270.....280.....290.....300

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Pavo_muticus      FPKAGSKKLQTPIG---PPSDDQTPFNYPVLRARGLIGAEGDQOREALPMDTEVYESPY 353
Pavo_cristatus    FPKAGSKKLQTPIG---PPSDDQTPFNYPVLRARGLIGAEGDQOREALPMDTEVYESPY 353
Gallus_gallus     FPKAGSKKLQTPIG---APSDDQTPFNYPVLRARGLIGAEGDQOREALPMDTEVYESPY 353
Chelonia_mydas    FPKPGSKKFHP--S---VPHDDSAFNPVYLQTRALMGAEQGDORDALPMDTEVYESPY 353
Homo_sapiens      FPKPGHRKSSPAQG---NRQESTVSFNYPYEP--ELAPWAADKGPQOREALPMDTEVYESPY 352
Pan_troglodytes   FPKPGHRKSSPAQG---NRQESTVSFNYPYEP--ELAPWAAEKGPQOREALPMDTEVYESPY 352
Macaca_mulatta    FPKPGHRKSPSPAQG---NRPESTVSFNYPYEP--EVAPWAAEKGPQOREALPMDTEVYESPY 352
Callithrix_jacchus FPKPGHRKSPSPAQG---NRPESAVSFNYPYEP--ELGPWTAEKGPQOREALPMDTEVYESPY 354
Mus_musculus      FPKPGHKKPAPPQG---SRPESTVSFNYPYEP--TGGPWGPDRLGLOREALPMDTEVYESPY 346
Rattus_norvegicus FPKPGHKKPPPPQG---SRPESTVSFNYPYEP--TGGAWGPDRLGLOREALPMDTEVYESPY 346
Heterocephalus_glaber FPKPGHRKTTPPPPG---SRPESTVSFNYPYEP--RGGSWAPEKGPQOREALPMDTEVYESPY 345
Bos_taurus        FPKRDHRKTIRTSSG---NQVDSSTIFNYPYEP--DRGPWANEREAQOREALPMDTEVYESPY 345
Equus_caballus    FPKPGHRKSSSSQG---NHPESSATSNPYEL--DRGTSATERDAQREAMPMDTEVYESPY 352
Canis_lupus_familiaris FPKPGHRKAASSTG---SRPES--SFNYPYEP--DRGPWATDRDAQREALPMDTEVYESPY 350
Rhinatrema_bivittatum APRP--PGHHPGQD---TVARSSSLKNEYMR-----CGVEQGPSKDAMPMDTAVYESPY 317
Latimeria_chalumnae FSKPGSKKSHP-----ERSANNFNYPVMPKRTSVGFDAS--QKDAMPMDTGVYESPY 341
Xenopus_tropicalis FPKPGNKKMTLSTAGAPRRHGSSTSINTYVHR-----PNAEVTMDSMPMDTDVYRGIV 348
.....310.....320.....330.....340.....350.....360

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Pavo_muticus      ADPDEIKPKNVTLDRKLLTLEEGELGSGNFGTVKKGFYKMKKGAKPVAVKILKNESNDPA 413
Pavo_cristatus    ADPDEIKPKNVTLDRKLLTLEEGELGSGNFGTVKKGFYKMKKGAKPVAVKILKNESNDPA 413
Gallus_gallus     ADPDEIKPKNVTLDRKLLTLEEGELGSGNFGTVKKGFYKMKKGAKPVAVKILKNESNDPA 413
Chelonia_mydas    ADPEEIKPKNVSLDRKLLSLEEGELGSGNFGTVKKGLYMMKKGAKPVAVKILKNESNDPA 413
Homo_sapiens      ADPEEIRPKEVYLDRLKLLTLEDKELGSGNFGTVKKGGYYQMKKVVKTVAVKILKNEANDPA 412
Pan_troglodytes   ADPEEIRPKEVYLDRLKLLTLEDKELGSGNFGTVKKGGYYQMKKVVKTVAVKILKNEANDPA 412
Macaca_mulatta    ADPEEIRPKEVYLDRLKLLTLEDKELGSGNFGTVKKGGYYQMKKVVKTVAVKILKNEANDPA 412
Callithrix_jacchus ADPEEIRPKEVYLDRLSLLTLEDKELGSGNFGTVKKGGYYQMKKVVKTVAVKILKNEANDPA 414
Mus_musculus      ADPEEIRPKEVYLDRLSLLTLEDNELGSGNFGTVKKGGYYQMKKVVKTVAVKILKNEANDPA 406
Rattus_norvegicus ADPEEIRPKEVYLDRLKLLTLEDNELGSGNFGTVKKGGYYQMKKVVKTVAVKILKNEANDPA 406
Heterocephalus_glaber ADPEEIRPKEVYLDRLSLLTLEENELGSGNFGTVKKGGYYQMKKGLKTVAVKILKNEANDPA 405
Bos_taurus        ADPEEIRPKEVYLDRLKLLTLEDKELGSGNFGTVKKGGYYQMKKVVKTVAVKILKNEANDPA 405
Equus_caballus    ADPEEIRPKEVYLDRLNLLTLEDNELGSGNFGTVKKGGYYQMKKVVKTVAVKILKNEANDPA 412
Canis_lupus_familiaris ADPEEIRPKEVYLDRLKLLTLEDNELGSGNFGTVKKGGYYQMKKVVKTVAVKILKNEANDPA 410
Rhinatrema_bivittatum ADPEEIRPKTVYLRREQLILEDIELGSGNFGTVKKGGYYQMKKTRTEKQVAIKVLKNESNDPA 377
Latimeria_chalumnae ADPEEIKPKTVYLRREQLILEDIELGSGNFGTVKKGGYYQMKKTRTEKQVAIKVLKNESCDPS 401
Xenopus_tropicalis EDPDEFPMGDKISREQLTLFETELGSGNFGTVKKGGELKTSKSKKPVAVKILKNESNDPS 408
.....370.....380.....390.....400.....410.....420

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      :::*** ** ** *::*****:***.* *****:* * .***:* :*:.. *:
Pavo_muticus      IKDELLREANVMQQLDNPYIVRMIGICEAEAWMLVMAELGPLNKFLQKNRHVTEKNIT 473
Pavo_cristatus    IKDELLREANVMQQLDNPYIVRMIGICEAEAWMLVMAELGPLNKFLQKNRHVTEKNIT 473
Gallus_gallus     IKDELLREANVMQQLDNPYIVRMIGICEAEAWMLVMAELGPLNKFLQKNRHVTEKNIT 473
Chelonia_mydas    VKDELLREANVMQQLDNPYIVRMIGICEAESWMLVMAELGPLNKFLQKNRHVTEKNIT 473
Homo_sapiens      LKDELLAEANVMQQLDNPYIVRMIGICEAESWMLVMAELGPLNKYLQONRHVKDKNII 472
Pan_troglodytes   LKDELLAEANVMQQLDNPYIVRMIGICEAESWMLVMAELGPLNKYLQONRHVKDKNII 472
Macaca_mulatta    LKDELLAEANVMQQLDNPYIVRMIGICEAESWMLVMAELGPLNKYLQONRHVKDKNII 472
Callithrix_jacchus LKDELLAEANVMQQLDNPYIVRMIGICEAESWMLVMAELGPLNKYLQONRHVKDKNII 474
Mus_musculus      LKDELLAEANVMQQLDNPYIVRMIGICEAESWMLVMAELGPLNKYLQONRHVKDKNII 466
Rattus_norvegicus LKDELLAEANVMQQLDNPYIVRMIGICEAESWMLVMAELGPLNKYLQONRHVKDKNII 466
Heterocephalus_glaber LKEELLAEANVMQQLDNPYIVRMIGICEAESWMLVMAELGPLNKYLQONRHVKDKNII 465
Bos_taurus        LKDELLAEANVMQQLDNPYIVRMIGICEAESWMLVMAELGPLNKYLQONRHVKDKNII 465
Equus_caballus    LKDELLAEANVMQQLDNPYIVRMIGICEAESWMLVMAELGPLNKYLQONRHVKDKNII 472
Canis_lupus_familiaris LKDELLAEANVMQQLDNPYIVRMIGICEAESWMLVMAELGPLNKYLQONRHVKDKNII 470
Rhinatrema_bivittatum IQDELLKEASVMQQLDNPYIVRMIGICEAEFWMLVMEADLGPLNKFLKNDITQINLT 437
Latimeria_chalumnae IKDELLKEAHVMQQLDNPYIVRMIGICEAECWMLVMEADLQGPLNKYLQONRHVKDKNII 461
Xenopus_tropicalis MKDELLKEAKVMQQLDNPYIVRMIGICEGESWMLVMEADLGPLNKFLVKNKNVTEHVT 468
.....430.....440.....450.....460.....470.....480

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      *****  *****  *****  *****  *****  :*.**:* *
Pavo_muticus      ELVHQVSMGMKYLEENNFFVHRDLAARNVLLVTOHYAKISDFGLSKALSADENYYKAQSHG 533
Pavo_cristatus    ELVHQVSMGMKYLEENNFFVHRDLAARNVLLVTOHYAKISDFGLSKALSADENYYKAQSHG 533
Gallus_gallus     ELVHQVSMGMKYLEENNFFVHRDLAARNVLLVTOHYAKISDFGLSKALSADENYYKAQSHG 533
Chelonia_mydas    ELVHQVSMGMKYLEENNFFVHRDLAARNVLLVTOHYAKISDFGLSKALSADENYYKAQSHG 533
Homo_sapiens      ELVHQVSMGMKYLEESNFVHRDLAARNVLLVTOHYAKISDFGLSKALRADENYYKAQTHG 532
Pan_troglodytes   ELVHQVSMGMKYLEESNFVHRDLAARNVLLVTOHYAKISDFGLSKALRADENYYKAQTHG 532
Macaca_mulatta    ELVHQVSMGMKYLEECNFVHRDLAARNVLLVTOHYAKISDFGLSKALRADENYYKAQTHG 532
Callithrix_jacchus ELVHQVSMGMKYLEECNFVHRDLAARNVLLVTOHYAKISDFGLSKALRADENYYKAQSHG 534
Mus_musculus      ELVHQVSMGMKYLEESNFVHRDLAARNVLLVTOHYAKISDFGLSKALRADENYYKAQTHG 526
Rattus_norvegicus ELVHQVSMGMKYLEESNFVHRDLAARNVLLVTOHYAKISDFGLSKALRADENYYKAQTHG 526
Heterocephalus_glaber ELVHQVSMGMKYLEECNFVHRDLAARNVLLVTOHYAKISDFGLSKALRADENYYKAQTHG 525
Bos_taurus        ELVHQVSMGMKYLEECNFVHRDLAARNVLLVTOHYAKISDFGLSKALRADENYYKAQTHG 525
Equus_caballus    ELVHQVSMGMKYLEESNFVHRDLAARNVLLVTOHYAKISDFGLSKALRADENYYKAQTHG 532
Canis_lupus_familiaris ELVHQVSMGMKYLEESNFVHRDLAARNVLLVTOHYAKISDFGLSKALRADENYYKAQTHG 530
Rhinatrema_bivittatum ELVHQVSMGMKYLEENNFFVHRDLAARNVLLVTOHYAKISDFGLSKALNADENYYKAKGTHG 497
Latimeria_chalumnae ELVHQVSMGMKYLEENNFFVHRDLAARNVLLVTOHYAKISDFGLSKALNADENYYKAKGTG 521
Xenopus_tropicalis ELVHQVSMGMKYLEETNFVHRDLAARNVLLVTOHYAKISDFGLSKALESDENYYQAKTAG 528
.....490.....500.....510.....520.....530.....540

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RPEACPVEVYDLMKLCWITYSVDDRPGFIAVELRLRNYYYDISH      636
RPEACPVEVYDLMKLCWITYSVDDRPGFIAVELRLRNYYYDISH      636
CPEACPVEVYDLMKLCWITYNVDDRPGFVAVELRLRNYYYDISH      636
SPEACPSEVYDLMKLCWITYKIDDRPGFSAVELRLRNYYYDISH      636
CPAGCPREMYDLMNLCWITYDVENRPGFAAVELRLRNYYYDVVN      635
CPAGCPREMYDLMNLCWITYDVENRPGFAAVELRLRNYYYDVVN      635
CPAGCPREMYDLMNLCWITYDVENRPGFAAVELRLRNYYYDVVN      635
CPAGCPREMYDLMNLCWITYDVENRPGFAAVELRLRNYYYDVVN      637
CPAGCPREMYDLMNLCWITYDVENRPGFIAVELRLRNYYYDVVN      629
CPPGCPREMYDLMNLCWITYDVENRPGFAAVELRLRNYYYDVVN      629
CPSGCPREMYELMNLCWITYEVEKRPNFVAVELRLRNYYYDVVN      628
CPPGCPREMYELMTLCWITYDVENRPGFVAVELRLRNYYYDVVN      628
CPAGCPREMYELMKLCWITYEVENRPGFVAVELRLRNYYYDVVN      635
CPAGCPREMYELMKLCWITYEVDRRPGFEAVELRLRNYYYDVVN      633
APANCPPEIYNIMKRCWITYNLEDRPGFTQVELKLRNYYYDISH      600
APAKSPPEMYDLMRLCWITYK-----      601
CPRRCPAEMYNLIKLCWITYKTEERPSFAVVELKLSYYYDSH      631
.....610.....620.....630.....640...

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