

TR|A0A3Q2L9C5|A0A3Q2L9C5_HORSE -----
TR|A0A452E207|A0A452E207_CAPHI ----- MKSPLLALALWSLI --- 14
TR|A0A2K5T215|A0A2K5T215_MACFA -----
TR|G3R542|G3R542_GORGO ----- MKTLLDLDLALWSLI --- 14
TR|G1LVN9|G1LVN9_AILME ----- TKMTLLGLALWSLI --- 14
TR|F1N5B2|F1N5B2_BOVIN ----- MKTPLLALALWSLI --- 14
TR|A0A3Q7S8U5|A0A3Q7S8U5_VULVU MDLRQLCQLESVLAKTIEVLGGKNCAQNKTSEHKEYGSEVSKVLKMIILLGLALWSLI --- 57
TR|F6W2A3|F6W2A3_ORNAN ----- MEGGLGLGVALGTLLI --- 15
TR|H0VCJ2|H0VCJ2_CAVPO ----- MKSPLLGLVWWSLIQL --- 17
SP|P25092|GUC2C_HUMAN ----- MKTLLDLDLALWSLI --- 14
TR|F7B751|F7B751_MONDO -----

TR|A0A3Q2L9C5|A0A3Q2L9C5_HORSE -----
TR|A0A452E207|A0A452E207_CAPHI LRPGLF FWTSHVSRNCQDGSYEISVLMMNNSAFPEFLDSLEEVEVKEGVKIVRQRLLE --- 71
TR|A0A2K5T215|A0A2K5T215_MACFA ----- MMDNSAFAPLENVEDAVNEGLEIVRGRQLN --- 31
TR|G3R542|G3R542_GORGO FQPRWLSLS SKVSQNCNNGSYEISVLMMDNSAFAPLKNLEDAVNEGLEIVRGRQLN --- 71
TR|G1LVN9|G1LVN9_AILME LCPGLT FWDQSISRNCNNGSYEISVLMMNNSAFPEFLDNLKEAVNEGVEIVRQRLNNAV 74
TR|F1N5B2|F1N5B2_BOVIN LRPGLF FWTSHVSRNCQDGSYEISVLMMNNSAFPEFLDSLEEVEVKEGVKIVRQRLLE --- 71
TR|A0A3Q7S8U5|A0A3Q7S8U5_VULVU LRPGVMYWASQISQNCNNGSYEISVLMMNNSAFPEFLDNLKEAVNEGVEIVRQRLN --- 114
TR|F6W2A3|F6W2A3_ORNAN -GFQVLGWA TGNPHCRKDFYELSVLMSSSAFPESLKLVRAVELGVKLVBEILLTES --- 72
TR|H0VCJ2|H0VCJ2_CAVPO LQPGLA FWNQSISRNCNNGSYEITVLMMNNSAFQESLES LKTAVNKGLDIVKQRLQE --- 74
SP|P25092|GUC2C_HUMAN FQPGWLSFSS QVSQNCNNGSYEISVLMMGNSAFAPLKNLEDAVNEGLEIVRGRQLN --- 71
TR|F7B751|F7B751_MONDO -----

TR|A0A3Q2L9C5|A0A3Q2L9C5_HORSE ----- MGCALMGPSCTYSTFQ 16
TR|A0A452E207|A0A452E207_CAPHI -AGLNVTVNATFIYSEGVIYKSNDCRSSTCEGLDLLRTISSKKQMGCVLMGPSCTYSTFQ 130
TR|A0A2K5T215|A0A2K5T215_MACFA -AGLNVTVNASFMYS DGLIHN SGDCRSSTCEGLDLLRKISNAKRMGCVLMGPSCTYSTFQ 90
TR|G3R542|G3R542_GORGO -AGLNVTVNATFTYS DGLIHN SGDCRSSTCEGLDLLRKISNAQRMGCVLIGPSCTYSTFQ 130
TR|G1LVN9|G1LVN9_AILME ETGINVTNVNVTFIYSDSVIYKSNDCRSSTCEGLDLLRAISNNKRMGCVLMGPSCTYSTFQ 134
TR|F1N5B2|F1N5B2_BOVIN -AGLNVTVNATFIYSEGVIYKSSDCRSSTCEGLDLLRTISSKKQMGCVLMGPSCTYSTFQ 130
TR|A0A3Q7S8U5|A0A3Q7S8U5_VULVU -AGKNVTVNATFIYSNVTIYKSSDCRSSTCEGIDLLREISNNKRMGCVLMGPSCTYSTFQ 173
TR|F6W2A3|F6W2A3_ORNAN ESGHDVQVNASFFESESPIYRSTDCRSSTCK-LQIFMDIEKGKMGCMGALMGPSCTYATFQ 131
TR|H0VCJ2|H0VCJ2_CAVPO -AALYVTVNATFIHSDGLIHKSGDCRSSTCEGLDLLREIARQKRMGCMGALMGPSCTYSTYQ 133
SP|P25092|GUC2C_HUMAN -AGLNVTVNATFMYS DGLIHN SGDCRSSTCEGLDLLRKISNAQRMGCVLIGPSCTYSTFQ 130
TR|F7B751|F7B751_MONDO ----- MGPSTYSTYQ 11
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TR|A0A3Q2L9C5|A0A3Q2L9C5_HORSE MYLDTDLNYPMISAGSFGLSCDYKETLIRLMS PARKLMYFLVNFVKANNLPFKTFSWSTA 76
TR|A0A452E207|A0A452E207_CAPHI MYLDTDLNYPMISAGSFGLSCDYKETLTRMMS PARKLMYFLVDFWKG-NFQPKFPFWNTA 189
TR|A0A2K5T215|A0A2K5T215_MACFA MYLDTELSYPMISAGSFGLSCDYKETLTRLMSPARKLTYFLVNFVKNTDLPFKTYSWSTS 150
TR|G3R542|G3R542_GORGO MYLDTELSYPMISAGSFGLSCDYKETLTRLMSPARKLMYFLVNFVKNNLPFKTYSWSTS 190
TR|G1LVN9|G1LVN9_AILME MYLDADLNYPMISAGSFGLSCDYKETLTRLMSPARKLMYFLVNFVKVNDLPFKFSWNSA 194
TR|F1N5B2|F1N5B2_BOVIN MYLDTDLNYPMISAGSFGLSCDYKETLTRMMS PARKLMYFLVEFWKV-KFQPKFPFWNTA 189
TR|A0A3Q7S8U5|A0A3Q7S8U5_VULVU MYLDTDLNYPMISAGSFGLSCDYKETLTRLMSPARKLMYFLVDFWVKANNLPFKDYSWSTA 233
TR|F6W2A3|F6W2A3_ORNAN MYLDMELDLPTISAGSFGLSCDFKETLTRMT PARKLTNFLVDFWKMNSLPFKTTPWKTS 191
TR|H0VCJ2|H0VCJ2_CAVPO MYLDTELNYPMISAGSFGLSCDYKETLTRMMS PARKLMYFLVDFWKASNLFPKFSWNTS 193
SP|P25092|GUC2C_HUMAN MYLDTELSYPMISAGSFGLSCDYKETLTRLMSPARKLMYFLVNFVKNTDLPFKTYSWSTS 190
TR|F7B751|F7B751_MONDO MYLDTILEYPMISAGSFGLSCDHKETLTRLMFPARKLTYFLVDFWKT HNLT PFKTVSWKTA 71
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TR|A0A3Q2L9C5|A0A3Q2L9C5_HORSE YVFKNGSESEDCFWYLNALAEAGVSYFSQELIFKDVLRGDDQFQGILSNHKKRSNVIIMCG 136
TR|A0A452E207|A0A452E207_CAPHI YVFKNSTETEDCFWYLNALAEAGVSYFSQNLGFKEMLRGDTFQDILMDQNRKSNVIIMCG 249
TR|A0A2K5T215|A0A2K5T215_MACFA YVYKNGTESEDCFWYLNALAEASVSYFSHEL SFKVLVRQDKFQDILMDHNKRSNVIIMCG 210
TR|G3R542|G3R542_GORGO YVYKNGTESEDCFWYLNALAEASVSYFSHEL GFKVVLVRQDKFQDILMDHNKRSNVIIMCG 250
TR|G1LVN9|G1LVN9_AILME YVFKNGSETEDCFWYLNALAEAGVSYFSQEL SFKEMLRGNDQFQDILTQNRKSNVIIMCG 254
TR|F1N5B2|F1N5B2_BOVIN YVFKNSTETEDCFWYLNALAEAGVSYFSQKL GFKEMLRGDTFQDILMDQNRKSNVIIMCG 249
TR|A0A3Q7S8U5|A0A3Q7S8U5_VULVU YVFKNSTESEDCFWYLNALAEAGVSYFSQEL SFKEMLRGDDQFQDILMDQNRKSNVIITCG 293
TR|F6W2A3|F6W2A3_ORNAN YVYKNQNLSEDCFWYLNALAEAGVTYFSGILEFKEVLRNEEQFAFLTDQNRKSNVIIMCG 251
TR|H0VCJ2|H0VCJ2_CAVPO YVFKNGTESEHCFWYINALAEAGVSYFSQVLGFKEMLRGNEELQKILKDPNRRSNVIIMCG 253
SP|P25092|GUC2C_HUMAN YVYKNGTESEDCFWYLNALAEASVSYFSHEL GFKVVLVRQDKFQDILMDHNKRSNVIIMCG 250
TR|F7B751|F7B751_MONDO YVFKNNNYTEECFWYLNALAEAGVSYFSQELQFKDILRTEEQFQNILTNKRSNVIIMCG 131
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TR|A0A3Q2L9C5|A0A3Q2L9C5_HORSE RPDVIHSLKGDRAVAEDIVIIILVDLFNN-HYFTDNVTAPDYMKNVLVLTLPENSTSNGS 195
TR|A0A452E207|A0A452E207_CAPHI RPETIRNLRELSFQKENKDFQK--IFSFLMFF-----IA---LNG--IQD 287
TR|A0A2K5T215|A0A2K5T215_MACFA DPQFLYKLKGDRAVAEDIVIIILVDLFND-QYFEDNVTAPDYMKNVLVLTQSPGNSLNS 269
TR|G3R542|G3R542_GORGO GPEFLYKLKGDRAVAEDIVIIILVDLFND-QYFEDNVTAPDYMKNVLVLTLPSPGNSLNS 309
TR|G1LVN9|G1LVN9_AILME TPSVISNLKGDRAVAEDIVIIILVDLFNN-HYFMENVNVTAPDYMKNVLVLTLPENSTISS 313
TR|F1N5B2|F1N5B2_BOVIN RPETIQNLGRNRAVAEDIVIIILVDLFND-HYFMDNVTAPDYMKNVLVLTLPENSVSNSS 308
TR|A0A3Q7S8U5|A0A3Q7S8U5_VULVU TPSTISSLKGDRAVAEDIVIIILVDLFNN-DYFMDNVTAPNYMKNVLVLTLPPEYSISNSS 352
TR|F6W2A3|F6W2A3_ORNAN TPEIVSEIVGGRQVDEDI IIIILVDLFSSSKYFEDPKQSADYMHNVLVLTLP PPPVMSSVV 311
TR|H0VCJ2|H0VCJ2_CAVPO TPQTMESLKDWTATEDTVIIILVDLFNN-YYFEENATAPDYMKNVLVLTLP PGNSTINTS 312
SP|P25092|GUC2C_HUMAN GPEFLYKLKGDRAVAEDIVIIILVDLFND-QYFEDNVTAPDYMKNVLVLTLPSPGNSLNS 309
TR|F7B751|F7B751_MONDO SPESVNALKGDHESDEDIVIIILVDLFNN-QYFENTT-SAPYMKNVLVLTLPANSSLSNL 189
* . : : * : : * . * : :

TR A0A3Q2L9C5 A0A3Q2L9C5_HORSE	FFKDFS LAKNDFS LAYLDGVL LFGHMLKIFLES	GEDVTT PKFAHAFRNLT	TFEGYTG	PVTL	255
TR A0A452E207 A0A452E207_CAPHI	KDNI VTRAKNDFS AAYLDGVL LFGHMLKIFLE	NGEDVTT SKFAHAFRNIT	TFEGHVG	PVTL	347
TR A0A2K5T215 A0A2K5T215_MACFA	FSRNLSPTK RFDALAYLNG ILLFGHMLKTFL	ENGENITTPKFAHAFRNLT	TFEGYDGP	PVTL	329
TR G3R542 G3R542_GORTO	FSRNLSPTK RFDALAYLNG ILLFGHMLKIFLE	NGENITTPKFAHAFRNLT	TFEGYDGP	PVTL	369
TR G1LVN9 G1LVN9_AILME	FSKGLSQA KNNFALAYLNG ILLFGHMLKIFLE	NGEAITTPKFAQAFRNLT	TFEGHAG	PVTL	373
TR F1N5B2 F1N5B2_BOVIN	SSKNLSQA KNNDFS AAYLDGVL LFGHMLKIFLE	NGEDVTT SKFAHAFRNIT	TFEGHVG	PVTL	368
TR A0A3Q2S8U5 A0A3Q2S8U5_VULVU	FSKGT PQA KNNFALAYLNG VLLFGHMLKTFL	ENGENITTPKFAQAFRNLT	TFEGHAG	PVTL	412
TR F6W2A3 F6W2A3_ORNAN	LES GSVQLK DFEAVAYLDGVL LFGHMLKLLQ	NKETL-DFS GRLFRNLT	TFPGALGP	PVTV	370
TR H0VCJ2 H0VCJ2_CAVPO	LSKESLQ EFSDFALAYLDG ILLFGHMLKTFL	RNGENTTAHKFAHAFRNLT	TFEGSTG	PVTL	372
SP P25092 GUC2C_HUMAN	FSRNLSPTK RFDALAYLNG ILLFGHMLKIFLE	NGENITTPKFAHAFRNLT	TFEGYDGP	PVTL	369
TR F7B751 F7B751_MONDO	--LNISLVKDD FVLAHLDG ILLFGHMVKKSL	HDN---SSAYFSHAFRNLT	TFQGALGP	PVTL	244
	: * : * : * : * : * : * : *		: * : * : * : * : *		

TR A0A3Q2L9C5 A0A3Q2L9C5_HORSE	GIIAQEIILRRETFYFTSSCRDQNEKIFRVNSNGVKPFPRPDLFLETAEEKELEVYLLVKN	612
TR A0A452E207 A0A452E207_CAPHI	GIIAQEIILRRETFYFTSSCRDQNEKIFRVNSNGVKPFPRPDLFLETAEEKELEVYLLVKS	704
TR A0A2K5T215 A0A2K5T215_MACFA	GIIAQEIILRKETFYFTSSCRDRNEKIFRVNSNGMKPFPRPDLFLETAEEKELEVYLLVKS	686
TR G3R542 G3R542_GORGO	-----VYLLVKN	606
TR G1LVN9 G1LVN9_AILME	GVIAQEIILRRETFYFTSSCRDQNEKIFRVENANGVKPFPRPDLFLETAEEKELEVYLLVKN	730
TR F1N5B2 F1N5B2_BOVIN	GIIAQEIILRRETFYFTSSCRDQNEKIFRVENANGVKPFPRPDLFLETAEEKELEVYLLVKS	725
TR A0A3Q7S8U5 A0A3Q7S8U5_VULVU	GIIAQEIILRRETFYFTSSCRDQNEKIFRVENANGVKPFPRPDLFLETAEEKELEVYLLVKN	769
TR F6W2A3 F6W2A3_ORNAN	GIIAQEIILRKETFYFTLCCWDPEKEIYRVEKAEGSKPFPRPDLFLENAEEKELEVYLLVKS	727
TR H0VCJ2 H0VCJ2_CAVPO	GIIAQEIIMRRETFYFTSSCRDQNEKIFRVEHPDGLKPFPRPDLFLETAEEKELEVYLLVKN	732
SP P25092 GUC2C_HUMAN	GIIAQEIILRKETFYFTSSCRDRNEKIFRVNSNGMKPFPRPDLFLETAEEKELEVYLLVKN	726
TR F7B751 F7B751_MONDO	GIITQEIILRRETFYFTLRCRDQNEKIFRVENYNGLKPFPRPDLFLETTDEKELEVYLLVKN	601
	*:****.	
TR A0A3Q2L9C5 A0A3Q2L9C5_HORSE	CWEEDPEKRPDFKKIENTLAKIFGLFHDQK-NESYMDTLIRRLQLYSRNLEHLVEERTQL	671
TR A0A452E207 A0A452E207_CAPHI	CWEEDPEKRPDFKKIENTLAKIFGLFHDQK-NESYMDTLIRRLQLYSRNLEHLVEERTQL	763
TR A0A2K5T215 A0A2K5T215_MACFA	CWEEDPEKRPDFKKIETTLLAKIFGLFHDQK-NESYMDTLIRRLQLYSRNLEHLVEERTQL	745
TR G3R542 G3R542_GORGO	CWEEDPEKRPDFKKIETTLLAKIFGLFHDQK-NESYMDTLIRRLQLYSRNLEHLVEERTQL	665
TR G1LVN9 G1LVN9_AILME	CWEEDPEKRPDFKKIESTLLAKIFGLFHDQK-NESYMDTLIRRLQLYSRNLEHLVEERTQL	789
TR F1N5B2 F1N5B2_BOVIN	CWEEDPEKRPDFKKIENTLAKIFGLFHDQK-NESYMDTLIRRLQLYSRNLEHLVEERTQL	784
TR A0A3Q7S8U5 A0A3Q7S8U5_VULVU	CWEEDPEKRPDFKKIESTLLAKIFGLFHDQK-NESYMDTLIRRLQLYSRNLEHLVEERTQL	828
TR F6W2A3 F6W2A3_ORNAN	CWEEDPEKRPDFKKIESTLLAKLYGNFHSQN-SESYMDTLIRRLQLYSRNLEHLVEERTQL	786
TR H0VCJ2 H0VCJ2_CAVPO	CWEEDPEKRPDFKKIENTLAKIFGLFHDQK-NESYMDTLIRRLQLYSRNLEHLVEERTQL	791
SP P25092 GUC2C_HUMAN	CWEEDPEKRPDFKKIETTLLAKIFGLFHDQK-NESYMDTLIRRLQLYSRNLEHLVEERTQL	785
TR F7B751 F7B751_MONDO	CWEEDPEKRPDFKKIESTLLAKLFSHFHSQNNNESYMDSLIRRLQLYSRNLEHLVEERTQL	661
	*****:****.***:..*:*:*:*:*****:*****:*	
TR A0A3Q2L9C5 A0A3Q2L9C5_HORSE	YKAERDRADRLNFMLPRLVVKSLKEKGFEPELYEEVTIYFSDIVGFTTICKYSTPMEV	731
TR A0A452E207 A0A452E207_CAPHI	YKAERDRADQLNFMFLPRLVVKSLKEKGFEPELYEEVTYFSDIVGFTTICKYSTPMEV	823
TR A0A2K5T215 A0A2K5T215_MACFA	YKAERDRADRLNFMLPRLVVKSLKEKGFEPELYEEVTIYFSDIVGFTTICKYSTPMEV	805
TR G3R542 G3R542_GORGO	YKAERDRADRLNFMLPRLVVKSLKEKGFEPELYEEVTIYFSDIVGFTTICKYSTPMEV	725
TR G1LVN9 G1LVN9_AILME	YKAERDRADRLNFMLPRLVVKSLKEKGFEPELYEEVTIYFSDIVGFTTICKYSTPMEV	849
TR F1N5B2 F1N5B2_BOVIN	YKAERDRADQLNFMFLPRLVVKSLKEKGFEPELYEEVTYFSDIVGFTTICKYSTPMEV	844
TR A0A3Q7S8U5 A0A3Q7S8U5_VULVU	YKAERDRADRLNFMLPRLVVKSLKEKGFEPELYEEVTIYFSDIVGFTTICKYSTPMEV	888
TR F6W2A3 F6W2A3_ORNAN	YKAERDRADRLNFMLPRLVVKSLKETGLVEPELYEEVTIYFSDIVGFTTICKYSTPMEV	846
TR H0VCJ2 H0VCJ2_CAVPO	YKAERDRADRLNFMLPRPVQSLKEKGFEPELYEEVTYFSDIVGFTTICKYSTPMEV	851
SP P25092 GUC2C_HUMAN	YKAERDRADRLNFMLPRLVVKSLKEKGFEPELYEEVTIYFSDIVGFTTICKYSTPMEV	845
TR F7B751 F7B751_MONDO	YKAERDRADRLNFMLPRLVVKSLKEKGFEPELYEEVTIYFSDIVGFTTICKYSTPMEV	721
	*****:*****.**:***.*:*****:*****:*****:*	
TR A0A3Q2L9C5 A0A3Q2L9C5_HORSE	VDMLNDIYKSFHDHLDHHDVYKVTETIGDAYMVASGLPKRNGNRHVAIDIAKMALDILSFMG	791
TR A0A452E207 A0A452E207_CAPHI	VDMLNDIYKSNFDHLDHHDVYKVTETIGDAYMVASGLPKRNGNRHAIDIAKMALDILSFMG	883
TR A0A2K5T215 A0A2K5T215_MACFA	VDMLNDIYKSFHDHLDHHDVYKVTETIGDAYMVASGLPKRNGNRHVAIDIAKMALEILSFMG	865
TR G3R542 G3R542_GORGO	VDMLNDIYKSFHDHLDHHDVYKVTETIGDAYMVASGLPKRNGNRHVAIDIAKMALEILSFMG	785
TR G1LVN9 G1LVN9_AILME	VDMLNDIYKSFHDHLDHHDVYKVTETIGDAYMVASGLPKRNGNRHVAIDIAKMALDILSFMG	909
TR F1N5B2 F1N5B2_BOVIN	VDMLNDIYKSNFDHLDHHDVYKVTETIGDAYMVASGLPKRNGNRHVAIDIAKMALDILSFMG	904
TR A0A3Q7S8U5 A0A3Q7S8U5_VULVU	VDMLNDIYKSFHDHLDHHDVYKVTETIGDAYMVASGLPKRNGNRHVAIDIAKMALDILSFMG	948
TR F6W2A3 F6W2A3_ORNAN	VDMLNDVYMSFDHLDHHDVYKVTETIGDAYMVASGLPKRNGNRHVAIDIAKMALDILSFMG	906
TR H0VCJ2 H0VCJ2_CAVPO	VDMLNDLYKSFQDHDHHDVYKVTETIGDAYMVASGLPTRNGNRHVAIDIAKMALDILSFMG	911
SP P25092 GUC2C_HUMAN	VDMLNDIYKSFHDHLDHHDVYKVTETIGDAYMVASGLPKRNGNRHVAIDIAKMALEILSFMG	905
TR F7B751 F7B751_MONDO	VDMLNDIYKSFHDHLDHHDVYKVTETIGDAYMVASGLPERNGNRHVAIDIAKMALDILSFMG	781
	*****:*.**:*****:*****.**:***.*:*****:*****:*****:*	
TR A0A3Q2L9C5 A0A3Q2L9C5_HORSE	TFELEHLPLPIWIRIGVHSGPCAAGVVGKIMPRYCLFGDVTNTASRMESTGLPLRIHVS	851
TR A0A452E207 A0A452E207_CAPHI	TFELEHLPLPLPIWIRIGIHSGPCAAGVVGKIMPRYCLFGDVTNTASRMESTGLPLRIHVS	943
TR A0A2K5T215 A0A2K5T215_MACFA	TFELEHLPLPLPIWIRIGVHSGPCAAGVVGKIMPRYCLFGDVTNTASRMESTGLPLRIHVS	925
TR G3R542 G3R542_GORGO	TFELEHLPLPLPIWIRIGVHSGPCAAGVVGKIMPRYCLFGDVTNTASRMESTGLPLRIHVS	845
TR G1LVN9 G1LVN9_AILME	TFQLEHLPLPLPIWIRIGVHSGPCAAGVVGKIMPRYCLFGDVTNTASRMESTGLPLRIHVS	969
TR F1N5B2 F1N5B2_BOVIN	TFELEHLPLPLPIWIRIGIHSGPCAAGVVGKIMPRYCLFGDVTNTASRMESTGLPLRIHVS	964
TR A0A3Q7S8U5 A0A3Q7S8U5_VULVU	TFELEHLPLPLPIWIRIGVHSGPCAAGVVGKIMPRYCLFGDVTNTASRMESTGLPLRIHVS	1008
TR F6W2A3 F6W2A3_ORNAN	SFELEHLPLPLVWIRIGVHSGPCAAGVVGKIMPRYCLFGDVTNTASRMESTGLPLRIHVS	966
TR H0VCJ2 H0VCJ2_CAVPO	TFELEHLPLPLVWIRIGVHSGPCAAGVVGKIMPRYCLFGDVTNTASRMESTGLPLRIHVS	9

TR A0A3Q2L9C5 A0A3Q2L9C5_HORSE	FSDMIANSLQKRQASGIRSRKPTRIASYKKGTLEYLQLDTTDQESTHF-	959
TR A0A452E207 A0A452E207_CAPHI	FADMIASSLQKRQALGIRNRKPTRVASYKKGTLEYLQLNTTDNESTHF-	1051
TR A0A2K5TZ15 A0A2K5TZ15_MACFA	FSDMIANSLQKRQAAGIRSQKPRRVASYKKGTLEYLQLNTTDKESTYF-	1033
TR G3R542 G3R542_GORGO	FSDMIANSLQKRQAAGIRSQKPRRVASYKKGTLEYLQLNTTDKESTYF-	953
TR G1LVN9 G1LVN9_AILME	FSDMLANSLQKRQAAGIRSRKPTRVASYKRGTTYLQLNTTDKENTQV-	1077
TR F1N5B2 F1N5B2_BOVIN	FADMIASSLQKRQALGIRNRKPTRVASYKKGTLEYLQLNTTDNESTHF-	1072
TR A0A3Q7S8U5 A0A3Q7S8U5_VULVU	FSDMLANSLQKRQAAGIRSRKPTRVASYKKGTLEYLQLNTTDKEIPPAN	1117
TR F6W2A3 F6W2A3_ORNAN	FSNMITESLRKRQAEQKQKPSRVASYREGSLQYLQVATPDHSSGYL	1075
TR H0VCJ2 H0VCJ2_CAVPO	FSDMITNSLQKRQATGIKSRKPARVASYKKGTLEYLQLNTTDQDSTYF-	1079
SP P25092 GUC2C_HUMAN	FSDMIANSLQKRQAAGIRSQKPRRVASYKKGTLEYLQLNTTDKESTYF-	1073
TR F7B751 F7B751_MONDO	FSNMIVESLQKRQAQGLANQKPRRVASYKKGSLEYLHLNTTNDNNTYF-	949

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Supplemental figure 1. Alignment of guanylate cyclase protein sequences using ClustalW2. Highlighted areas indicate: ■ Signal peptide, ■ Guanylate cyclase domain, ■ Protein kinase domain. Asterisk (*) indicate sequence identity, colon (:) indicates strongly similar properties and period (.) indicates weakly similar properties.