

Human	184	LLKTVSYKACLPPSLRDLIQGLSFVTRRRIRRTVRRALRRVAACQADR	231
Chimpanzee	184	LLKTVSYKACLPPSLRDLIQGLSFVTRRRIRRTVRRALRRVAACQADR	231
Dog	184	LLKTVSYKVCCLPPDLRDLIQGLSFVTRKRIRRMVRRALRRVTACQADR	231
Mouse	184	LLKTVSYKACLPPSLRDVIQGGNFVTRRRIRRTVVVLLALRRVVACQADR	231
Rat	184	LLKSVSYKACLPPSLRDLIQGGQSFVTRRRIRRTVVQALRRVVACQADR	231
Chicken	188	VFSCVSYKTCIPEQLRCQIQQHSFLTRKRIRRRVAQSLRRMGGCRVDG	235
Zebrafish	185	ICNTTSYKSCLPETHRQDIQRMNRLARYQIRKTLKRFLKKLKGC SAGE	232

cons	193	: . . *** *: * * ** . : : * : * : : * : : : * . .	240
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Human	232	HSLMAKYIMDLERLDPAGAAETFHVGLPGALGGHDGLG--LLRVAGDG	277
Chimpanzee	232	HSLMAKYIMDLERLDPAGAAETFHVGLPGALGGHDGLG--LLRVAGDG	277
Dog	232	HSLMAKYIMDLERLDPARAVETFLVSFPGAAGGQDAQG--LLRVAGDR	277
Mouse	232	YALMAKYILDLELRLHPAATTETFRVGLPGA---QEEPG--LLRVAGDN	274
Rat	232	YALMAKYILDLELRLHPAATTESFLVGLPGA---QEEPG--CLRVTGDN	274
Chicken	236	CCLKLYLLDLERLRCCWAEESFHAHGP-----DADI--AIHVSTDS	275
Zebrafish	233	RSLKLYLMLKLELEPDYGSESEFPLHHSGLWLEQSEQQRVLAVKVSSEG	280

cons	241	. * * : : . * . * * : * : . : : : : : : : : : : :	288
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Human	278	GIAWTQGEQEVLQPPFCDFPEIVDISIKQAPRVGPAGEHRLVTVTRTDN	325
Chimpanzee	278	GIAWTQGEQEVLQPPFCDFPEIVDISIKQAPRVGPAGEHRLVTVTRTDN	325
Dog	278	GIAWSPGGQEALQPPFCDFPEIVDISIKQAPRAGPAGEHRLVTVTKTDK	325
Mouse	275	GISWSSGDQELFQTFCDFPEIVDVS IKQAPRVGPAGEHRLVTVTRMDG	322
Rat	275	GIAWSSKDQELFQTFCDFPEIVDVS IKQAPRVGPAGEHRLVTITRMDG	322
Chicken	276	GVSWSVGVSESRQHFCDFPDIAVSIKQASRDGGPVENRIVTLTKTDN	323
Zebrafish	281	GIQIQKTDREQEWQTFDFPQIIDISIKRLCQE QMPLEGRVVTLTRQDD	328

cons	289	* : : * * * * * : * * : * * : : . * * : * * : * : *	336
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Human	326	QILEAEFPGLPEALS FVALVDGYFRLTTDSQHFFCKEVAPPRLLEEVA	373
Chimpanzee	326	QILEAEFPGLPEALS FVALVDGYFRLTTDSQHFFCKEVAPPRLLEEVA	373
Dog	326	QILEAEFPGLPAALS FVALVDGYFRLTSDSRHFFCKEVAPPRLLEEVA	373
Mouse	323	HILEAEFPGLPEALS FVALVDGYFRLICDSRHFFCKEVAPPRLLEEEA	370
Rat	323	HILEAEFPGLPEALS FVALVDGYFRLICDSRHFFCKEVAPPRLLEEEA	370
Chicken	324	RVLEVEFPPTLREALSFMALVDGYRYRLTADAHHYFCKEVAPPRLLEDME	371
Zebrafish	329	QCMEAEFQTLTDALS FVSLVDGYFRLTTDSTHYFCAEVAPPSLLEDIQ	376

cons	337	: : * . * * * * * : : * * * * * : * * : * * * * * * * * :	384
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Human	374	EQCHGPITLDFAINK LKTGGSRPGSYVLRSPQDFDSFLLTVCVQNPL	421
Chimpanzee	374	EQCHGPITLDFAINK LKTGGSHPGSYVLRSPQDFDSFLLTVCVQTPL	421
Dog	374	EQCHGPITLDFAINK LKTGGSLPGSYVLRSPQDFDSFLLTVCVQTPL	421
Mouse	371	ELCHGPITLDFAIHKLKAAGSLPGTYILRRSPQDYDSFLLTACVQTPL	418
Rat	371	ELCHGPITLDFAIHKLKAAGSLPGSYILRRSPQDYDSFLLTACVQTPL	418
Chicken	372	NQCHGPISSEFAVRK LKAAGSHPGLYVLRSPQDFDSYLLTVCVCAETRS	419
Zebrafish	377	NYCHGPITSEFAVHKLK KAGGKNGMFLLRHSPKEFDKYFLTVCIQTPL	424

cons	385	: * * * * * : : * : . * * . * . * : * * : * * : : * : : * * . * : .	432
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Human	659	G--ADGSPPFIKLSDPGVSPAVLSLEMLTDRI PWVAPECLREAQTLSL	704
Chimpanzee	659	G--ADGSPPFIKLSDPGVSPAVLSLEMLTDRI PWVAPECLREAQTLSL	704
Dog	659	G--ADGNLPFIKLSDPGVSPVLSLEMLTDRI PWVAPECFQEARTLGL	704
Mouse	655	G--GDGNPPFIKLSDPGVSPVLSLEMLTDRI PWVAPECLQEAQTLSL	700
Rat	655	G--VDGNPPFIKLSDPGVSPVLSLEMLTDRI PWVAPECLQEAQTLSL	700
Chicken	657	GDAASSSPPFIKLNDPGVSITVLAKEWLVERIPWVAPECLSDPQSLAL	704
Zebrafish	659	G-----DSPFIKLSDPGVSMSELLGKDVVLDRI PWVAPEVL-DTLEIEL	700

cons	673	* . ***** . ***** : : * : : ***** : : . : *	720
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Human	705	EADKWGFGATVWEVFSGVTMPISALDPAKKLQFYEDRQQLPAPKWTEL	752
Chimpanzee	705	EADKWGFGATVWEVFSGVTMPISALDPAKKLQFYEDRQQLPAPKWTEL	752
Dog	705	EADKWGFGATVWEVFSGIPMPISTLDPAKKLQFYEERQQLPAPKWMEL	752
Mouse	701	EADKWGFGATTWEVFSGGPAHITSLEPAKKLKFYEDQQLPALKWTEL	748
Rat	701	EADKWGFGATTWEVFSGAPMHITSLEPAKKLKFYEDRGQLPALKWTEL	748
Chicken	705	PADKWGFGATLWEIFSGGNMPVSLLEPQKKLQFYDSRLQLPAPRWSEL	752
Zebrafish	701	ECDKWSFGTTLWEIFNGGEAPLQGLDLMQKLQFYENFNSNLPTLEWTEL	748

cons	721	. *** . ** : * ** : * . * : * : : ** : ** : . : ** : *	768
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Human	753	ALLIQQCMA YEPVQRPSFRAVIRDLNSLISSDYELLSDPTPGALAPRD	800
Chimpanzee	753	ALLIQQCMA YEPVQRPSFRAVIRDLNSLISSDYELLSDPTPGALAPRD	800
Dog	753	AVLIQQCMA YEPGQRPSFRAIIRDLNSLITSDYELLSDPTPGALAPRD	800
Mouse	749	AGLITQCMA YDPGRRPSFRAILRDLNGLITSDYELLSDPTPGIPSPRD	796
Rat	749	EGLIAQCMA YDPGRRPSFRAILRDLNGLITSDYELLSDPTPGIPNPRD	796
Chicken	753	AALIAQCI-YAPSRRPCFRAIIRDINSLISSDYELLSELSPGDVTLRN	799
Zebrafish	749	AELISHCMQYQPELRPSCRSIIRQLNSLITSDYEILH--ATDTLPESN	794

cons	769	** : * : * * ** . * : : : : * . ** : ** : * : : . : *	816
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Human	801	GLWNGAQLYACQDPTIFEERHLKYISQLGKGNFGSVELCRYDPLGDNT	848
Chimpanzee	801	GLWNGAQLYACQDPTIFEERHLKYISQLGKGNFGSVELCRYDPLGDNT	848
Dog	801	GLWNGAQLYAYQDPTIFEERHLKYISQLGKGNFGSVELCRYDPLGDNT	848
Mouse	797	ELCGGAQLYACQDPAIFEERHLKYISLLGKGNFGSVELCRYDPLGDNT	844
Rat	797	ELCGGAQLYACQDPAIFEERHLKYISLLGKGNFGSVELCRYDPLGDNT	844
Chicken	800	SCWGYEHVAAGHGPAQFEERHLKYISLLGKGNFGSVELCRYDPLGDST	847
Zebrafish	795	GFWKLNIFKKQQEDVFEERYLRFISVLGKGNFGSVELCRYDPWGDNT	842

cons	817	: : : ***** : : : * ***** : : : * . *	864
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Human	849	GALVAVKQLQHSGPDQQRDFQREIQILKALHSDFIVKYRGVSYGPPGRQ	896
Chimpanzee	849	GALVAVKQLQHSGPDQQRDFQREIQILKALHSDFIVKYRGVSYGPPGRQ	896
Dog	849	GALVAVKQLQHSGPDQQRDFQREIQILKALHSDFIVKYRGVSYGPPGRQ	896
Mouse	845	GPLVAVKQLQHSGPDQQRDFQREIQILKALHSDFIVKYRGVSYGPPGRQ	892
Rat	845	GPLVAVKQLQHSGPEQQRDFQREIQILKALHCD FIVKYRGVSYGPPGRQ	892
Chicken	848	GELVAVKQLQDSAKELQDFEREIQILHSLQHDFIVKYRGVCYSRGRN	895
Zebrafish	843	GELVAVKELQSNKQATMADFQREIQTISSLHCDYIVKYKGCICYSTGRLL	890

cons	865	* ***** : * . ** : ***** : : : * : ***** : : . * . *	912
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