

Unconserved 1 2 3 4 5 6 7 8 9 10 Conserved

	10	20	30	40	50
Homo sapiens	---MVYKT	LFALCILTAG	WRVQSLPTSA	PLSVSLPTNI	VPPTTIWTSS
Pan troglodytes	---MVYKT	LFALCILTAG	WRVQSLPTSA	PLSVSLPTNI	MPPTTIWTSS
Mus musculus	---MVCKV	LIALCIFTAG	LRVQGSPT-V	PLPVSLMTKS	SAPVATWTTS
Pongo abelii	---MVYKT	LFALCILTAG	WRVQSLPTSA	PLSVSLPTNI	MPPTTIWTSS
Sus scrofa	---MVCKT	LFALFIVTAG	LRVQRVSAST	VLPVFLPTKI	TPATAVWTSP
Bos taurus	---MVCKT	LFALCIFTAG	LRLQSVSASI	PSTDLSLAET	TTPTAIWTSS
Rattus norvegicus	---MVCKA	LITLCIFAAG	LMVQGSPTPT	LLPVSLTTKS	TAPMATWTTS
Gallus gallus	MHPDLAVRPA	ALVPCRYQK	LSDSSWPAAL	PALQDSYEFA	PDFQADHGGGA
Consistency	000008*	486	8677775688	5668647755	6646683745

	60	70	80	90	100
Homo sapiens	PQNTDADTAS	PSNGTHNNSV	LPVTASAPTS	LLPKNISI--	-ESREEEITS
Pan troglodytes	PQNTDADTAS	PSNGTHNNSV	LPVTASAPTS	LLLKNISV--	-ESREEEITS
Mus musculus	APHTARATTP	VASATHNASV	LRTTAASLTS	---QLPT--	-DHREEAVTS
Pongo abelii	PQNTDADTAS	PSNGTHNNSV	LPVTASAPTS	LLPKNISV--	-ESREEEITS
Sus scrofa	PQSPPASPTS	GTPSTSVLPI	IASAPTSPPT	--KNVSV--	-AGAEETPTS
Bos taurus	PQ---SPPAS	PTSGPSNNSV	LLDPTPVPTS	LPTKNIST--	-EPREEQSTS
Rattus norvegicus	AQHTAMATTP	VASATHNASV	LRTTAASLTS	---QLPT--	-HPREEAVTS
Gallus gallus	AGLKDTQTPG	LGDDPVAPSL	APFPVVGTS	GPGSGGTPVP	TAAPHQSTPL
Consistency	6634354766	4655756488	7446655578	2113455400	0546896588

	110	120	130	140	150
Homo sapiens	PGSNWEGTNT	DPSPSGF---	SSTSGGVHLT	TTLEEHSSGT	PEAGVAATLS
Pan troglodytes	PGSNWEGTNT	DSPSPGF---	SSTSGGVHLT	TTLEEHSSGT	PEVGMAATLS
Mus musculus	PPLKRDVNST	DSSPAGF---	PSTSSDGHLA	PTPEEHSLSGS	PEATVPATGS
Pongo abelii	PGSNWEGTNT	DSPSPGF---	SSTSGGVHLT	TTLEEHSLGT	PEAGVAATLS
Sus scrofa	PASQSAGTET	VPSSTSG---	GLH-----LT	PTPEEHSPTV	PEASVPATGS
Bos taurus	PASNWEGTDP	SPTSGGV---	H-----LT	PTPEEHSST	PEAGVPTTGS
Rattus norvegicus	PPLKREVNST	DSSPTGF---	SSNSSGIHLA	PTPEEHSLSGS	PETSVPATGS
Gallus gallus	TAVGPTSNV	SPEVGDRNGS	TTAMLSRAST	LTNTVTAADS	PSVAPSSVPP
Consistency	8555365657	5775474000	4544232387	5*48879457	*865757838

	160	170	180	190	200
Homo sapiens	QSAAEPPTLI	SPQAPASSPS	SLST--SPPE	VFSASVTTNH	SSTVTSTQPT
Pan troglodytes	QSTAEPTLI	SPQAPASSPS	SLST--SPPE	VFSASVTTNH	SSTVTSTQPT
Mus musculus	QSPML----L	SSQAPTSATT	SPAT--SLSE	SLSASVTSSH	NSTVANIQPT
Pongo abelii	QSAAEPPTLI	SPQAPASSPS	SLST--SPPE	VFSVSVTTNH	SSTVTSTQPT
Sus scrofa	QPQAESPALT	SPQAPTSSPS	PPST--SPLE	VPSASISTSN	SSTETSTKPT
Bos taurus	QPPAESPTLT	SPQGPASSPL	PPST--SPPE	VPSASISTSH	SSAETSTEPT
Rattus norvegicus	QSPTL----L	FSQGPTSAST	SPAT--SPSE	PLSASVTSNH	SSTVNNIQPT
Gallus gallus	TLETVLSPT	AHSSVARGTT	DLGTNPSPVD	TPTSFSSSSP	HNSTLHSSPG
Consistency	8546524336	7586878756	647*00*749	5387877776	78756667*8

	210	220	230	240	250
Homo sapiens	GAPTAPES--S	PTEESSSDHT	PTSHATAEPV	-PQEKTPPTT	VSGKVMCELI
Pan troglodytes	GAPTAPES--S	PTEESSSDHT	PTSHATAEPV	-PQEKTPPTT	VSGKVMCELI
Mus musculus	EAPMAPASPT	EEHSSSHTPT	SHVTAEPVVK	-EK--SPQDT	EPGKVIC---
Pongo abelii	GAPTAPES--S	PTEESSSDHT	PTSHATAEPV	-PQEKTPPTT	VSGKVMCELI
Sus scrofa	GAPTTPKSPE	EEHSSGQTPT	SHATATPMP	-ET--TSQAA	VPPKGTPLMI
Bos taurus	GAPTTPEESHT	EEHSSSTLTPT	SHASSESPT	-EA--TPQAT	VPPKVTCILI
Rattus norvegicus	GAPMAPA---	SPTEEHSSSH	TPTSHVTEPV	-PKEKSPQDT	EPGKVIC---
Gallus gallus	TALLSPAIP	QPPGLTKDVP	SPGTLAVAPS	LAMEPTSPSV	TAASPTKGM
Consistency	6*767*5114	5446654536	54555544*5	0543287657	5558655144

	260	270	280	290	300
Homo sapiens	DMETTTTFPR	VIMQVEVEHAL	SSGSIAAITV	TVIAVLLVF	GVAAYLKIRH
Pan troglodytes	DMETTTTFPR	VIMQVEVEHAL	SSGSIAAITV	TVIAVLLVF	GVAAYLKIRH
Mus musculus	--ESETTTTF	LIMQVEVENAL	SSGSIAAITV	TVIAVLLVF	GGAAYLKIRH
Pongo abelii	DMETTTTFPR	VIMQVEVEHAL	SSGSIAAITV	TVIAVLLVF	GVAAYLKIRH
Sus scrofa	DTETTAASPR	VIMQVEVEHAL	SSGSIAAITV	TVIAVLLVF	GVAAYLKIRH
Bos taurus	DMETTTTSPG	VIMQVEVEHAL	SSGSIAAITV	TVIAVLLVF	GVAAYLKIRH
Rattus norvegicus	--ESETTTTF	LIMQVEVENAL	SSGSIAAITV	TVIAVLLVF	GAAAYLKIRH
Gallus gallus	EEGKSTPSTG	VTIEEVPHAL	SAGSIVAITV	TVIVVLLVF	GAAAYLKIRH
Consistency	4386687483	8889**87**	*9***8***	***8**9***	*6*****

	310	320
Homo sapiens	SSYGRLDDH	DY--GSWGNYN
Pan troglodytes	SSYGRLDDH	DY--GSWGNYN
Mus musculus	SSYGRLDDH	DY--GSWGNYN
Pongo abelii	SSYGRLDDH	DY--GSWGNYN
Sus scrofa	SSYGRLDDH	DY--GSWGNYN
Bos taurus	SSYGRLDDH	DY--GSWGNYN
Rattus norvegicus	SSYGRLDDH	DYGSWGNYN
Gallus gallus	SSYGRLDDH	DY--GSWGNYN
Consistency	*****	**00*****