

Table S4. Alignment of novel amino acid variations in LTBP2

Variation	Pro432Leu	Arg495Gln	Ser518Ile	Ile667Leu	Glu1191Lys	Gln1417Arg	Met1567Val	Val1638Met	Protein ID*
Human	GKFC HLPI P QPD	HQVAQV R GGVEEA	RPPPWLPA S PGHSLW	CVSDKA I SMLQGLC	PHGE E CLNSH	CYSG Q KGH	QRC M NSTS	LCN V ARIEAER	ENSP00000261978
Chimpanzee	----- - ---	HQVAQV R GGVEEA	RPPPWLPA S PGHSLW	CVSDKA I SMLQGLC	PHGE E CLNSH	CYSG Q KGH	QRC M NSTS	LCN V ARIEAER	ENSPTRP00000011096
Gorilla	GKFC HLPI P QPD	HQVAQV R GGVEEA	RPLPWLPA S PGHSLW	CVSDKA I SMLQGLC	PHGE E CLNSH	CYSG Q KGH	QRC M NSTS	LCN V ARIEAER	ENSGGOP00000025837
Orangutan	GKFC HLPI P QPD	HQVAQV R GGVEEA	RPPPWLPA S PGHSLW	CVSDKA I SMLQGLC	PHGE E CLNSH	CYSG Q NGH	QRC M NSTS	LCN V ARIEAER	ENSPYP00000006808
Mouse	GKFC HLPI P QPD	HQVARV R GELDPV	RASRRPHG N LGHSPW	CVSDKA V SMQQGLC	PHGE E CLNSL	CYSE H NGG	QRC V NSTS	LCN V ARIEAER	ENSMUSP00000105883
Rabbit	GKFC HLPI P QLD	HQVARV R PETERA	RPPAQPPA S SGRGHW	CVSDKA V SMQQGLC	PHGE E CLNSP	CYSG Q DGH	QRC V NSTG	LCN V ARIEAER	ENSOCUP00000012112
Dog	GKFC HLPS P KLD	HQVARV R GEAPE-	RPSRLPA S PRHSPW	CVSDKA I SMQQGLC	PHGE E CLNSH	CYSG Q NGQ	QRC V NSTG	LCN V ARIEAER	ENSCAFP00000024933
Cow	GKFC HLPA P RLD	HQVARV R GEAEEA	RPSRLPA G PGPGRW	CVSDKA V SMQQGLC	PRGE E CLNSH	CYSG Q KDQ	QRC V NSTS	LCN V ARIEAER	ENSBTAP00000029274
Horse	GKFC HLPA P KLD	HQVARV R GEAEEA	RPAPRLPA S PSHSHW	CVSDKA V SMQQGLC	PRGE E CLNSH	CYSG Q NSQ	QRC V NSTS	LCN V ARIEAER	ENSECAP00000016809
Elephant	GKFC HLPI P KPE	HQVARV R GEAEEA	RPLPRLPA S PGHSRW	CVSDKA V SMQQGLC	PHGE E CLNSH	CYSG Q KGQ	QRC V NGTS	LCN V ARIEAER	ENSLAFP00000001345
Dolphin	GKFC HLPA P NLD	HQVARV R GEVEEA	RPSRLPA S PGHGHW	CVSDKA I SMQQGLC	PRGE E CLNSH	CYSG Q KGQ	QRC V NSTS	LCN V ARIEAER	ENSTTRP00000012372
Panda	GKFC HLPS P KLD	HQVARV R GEAPE-	RPSRLPA S PRHSHW	CVSDKA V SMQQGLC	PRGE E CLNSH	CYSG Q EGQ	QRC V NSTG	LCN V ARIEAER	ENSAMEP00000019330
Pig	GKFC HLPA P RLD	HQVARV R GEAEGA	RPSRFP T PGHSPW	CVSDKA V SMQQGLC	PRGE E CLNSH	CYSG Q KGQ	QRC V NSTS	LCN V ARIEAER	ENSSCP00000002566
Chicken	GKFC HLPA P SPE	HQVARV R GDSEVS	VL-----V P QMAAVP	CI S DKA V SMEQGLC	PNGE E CLNSH	CY Y H I SDV	NRC V NLSG	LCN G ASESDR	ENSGALP00000016671
Turkey	GKFC HMPA P SPE	HQVARV R GDSEVS	LAPIG T PV S SLEQLA	CI S DKA V SMEQGLC	PNGE E CLNSH	CY Y H I SDV	NRC V NLSG	LCN G ASESDR	ENSMGAP00000013379
Tetraodon	GKFC HLPA P VPT	HQVARV Q PGQRPV	QGSRH-P H T S H T S H T	CVSDKA V SHQKALC	EKG D CLNTE	CY Y N L NDA	HHC V SLNT	LCN L PWRGSSD	ENSTNIP00000020567
Fugu	GKFC HLPA P VPT	HQVARV Q PGQRPV	QQRSQ-P G S V HELAT	CVSDKA V SHQKALC	--- - -----	CY Y N L NDA	RRC V SLNT	MCN L PWS----	ENSTRUP00000039245
Medaka	GKFC HLAA P PPA	HQVARV Q PGQRLA	QQRSQ-P G N G H E H PS	CVSDKA V SEERASC	PTG V CTNTE	CY Y N L NDA	RHC I SLNS	MCN L PWEGGSD	ENSORLP00000020882

*Protein ID numbers from <http://www.ensembl.org>.