

<i>Felis catus</i> (wildtype)	MDLSAAAALC	LWLLSACRPR	DGLEAAAVLR	AAGAGPVGSP	GGDGGSGSGG	RTLAPAAGVS	60
<i>Felis catus</i> (mutant)	.....	.....	.....	.....	.....	.....	
<i>Homo sapiens</i>	.....	.....	.....	.....R..	..G..G.G..	....Q...AA	
<i>Equus caballus</i>	.....	.....	.....	.....A..	..--G.G..	....A...A.	
<i>Bos Taurus</i>	.....	.....	.....	.....AE..	..--G.GS.	T...A.E.T.	
<i>Rattus norvegicus</i>	.....	.....	.....	.....AW..	..----G..	....R.P.P.	
<i>Mus musculus</i>	.....	.....	.....	.....AW..	..----G..	....P.P.	
Consensus	MDLSAAAALC	LWLLSACRPR	DGLEAAAVLR	AAGAGPAGSP	GG--GGGGG	RTLAPAAGXS	
<i>Felis catus</i> (wildtype)	AAPAAAAPGV	RAARRAAGSG	FRNGSVVPHQ	FMMSLYRNLA	GRAPAGAAAA	STSGSGRHRG	120
<i>Felis catus</i> (mutant)	.....	...PP.PA..	TARWCRTSS-	-----	-----	-----	
<i>Homo sapiens</i>	.V....V.RA	.....	.....H	.....S..	.....V	.A.---...	
<i>Equus caballus</i>	TG.....A	.....S..	.....	.....S..	.....	.....	
<i>Bos Taurus</i>	.L...S..P	.G...T..	.....	.....S.T	.T...PV.V	.....	
<i>Rattus norvegicus</i>	.LQ...V..P	.V.....	.....H	.....S..	....V.....	AA.---...	
<i>Mus musculus</i>	.LQ...V..P	.V.....	.....H	.....S..	.....	A.---...	
Consensus	AAPAAAXPGP	RAARRAAGSG	FRNGSVVPHX	FMMSLYRSLA	GRAPAGAAAA	STSG--HGR	
<i>Felis catus</i> (wildtype)	ADTITGFADQ	ANQDESAA-E	TGQSFLFDVS	SLPDADEVVG	AELRVLRRES	PELGPGSATP	179
<i>Felis catus</i> (mutant)	-----	-----	-----	-----	-----	-----	
<i>Homo sapiens</i>	.....T..	.T.....-	.....	..N.....	.....G.	..S...W.S	
<i>Equus caballus</i>	.....	.T.....-	.....	..S.....	.....F	..PSS...I.	
<i>Bos Taurus</i>	..V.....	.IP.....-Q	..LN.....	.....L.	.....	GAR.....S.	
<i>Rattus norvegicus</i>	V.....T..	.T...T..A	P.....	..SE.....N	.....R.	..PDRD...L	
<i>Mus musculus</i>	V.....T..	.T.E.....-	P.....	..S.S...N	.....R.	..PDRD...L	
Consensus	ADTITGFXDQ	ATQDESAA-E	TGQSFLFDVS	SLSDADEVVG	AELRVLRRES	PEPGPGSATP	
<i>Felis catus</i> (wildtype)	LPLLLL-STC	PGAARAPRL	HSRAAEPLAG	ARWEVFDVAD	AVRRHRQEPH	ATRAFCLLLR	238
<i>Felis catus</i> (mutant)	-----	-----	-----	-----	-----	-----	
<i>Homo sapiens</i>	P.....-	.....	Y.....V.	Q...A.....	.M...R..R	PP.....	
<i>Equus caballus</i>	Q.....L..	.....S..L.	.....D.	.....	.....R..R	..V.....	
<i>Bos Taurus</i>	-.....-	.S..S.....	.....F.DA	.....	.L...R..R	TS.....S.S	
<i>Rattus norvegicus</i>	..R...-..	.DE.GTAH..	.....G.	...A...T.	..QS..RW.R	.S.K...V..	
<i>Mus musculus</i>	P.....-	.DE.GTAH..	.....DS	...A...T.	..QS..RW.R	TS.K...V..	
Consensus	XPLLLL-STC	PGAAXAPRL	HSRAAEPLDG	ARWEXFDVAD	AVRRHRREPR	ASRAFCLLLR	
<i>Felis catus</i> (wildtype)	SVAGPSQGPL	ALRLLGFGSR	GRD---GAAA	EERALLVVSS	RTQRKGSLFR	EIRAQARALG	295
<i>Felis catus</i> (mutant)	-----	-----	-----	-----	-----	-----	
<i>Homo sapiens</i>	A....VPS..	...R...WP	.GG---S..	...V.....	.....E...	.....	
<i>Equus caballus</i>	AA...AR...	..Q.....	.GG---...	.....	.....E...	.....	
<i>Bos Taurus</i>	G.V.SARV..	...P...L.	.GG---...	.....	.....E...	...S.....	
<i>Rattus norvegicus</i>	A.TASESS..	...R...WP	.GGDGG.T.	.....I..	.....E...	.....R	
<i>Mus musculus</i>	A.T.AESS..	...R...WP	.GGDGG.T.	.....I..	..H..E...	.....R	
Consensus	AVAGPXXSPL	ALRRLLGFGWX	GGG---GAAA	EERALLVVSS	RTQRKESLFR	EIRAQARALG	
<i>Felis catus</i> (wildtype)	AALAAEPPRD	PGPGTGSPTA	VISGRRRRRT	ALTGARATQG	SGGGGG----	-----	360
<i>Felis catus</i> (mutant)	-----	-----	-----	-----	-----	-----	
<i>Homo sapiens</i>	....S..LP.	..T..A..R.	..G.....	..A.T.TA..	....-----	-----	
<i>Equus caballus</i>	.P.....P.	.....	..G.....	..A.T..A.	....-----	-----	
<i>Bos Taurus</i>	...V.SRP.	SR..V.....	..G.....	..A...A.	....-----	-----	
<i>Rattus norvegicus</i>	..-.....P.	...A..RK.	NLG.....	..A.T.GA..	.....GGGG	GGGGGGGGGG	
<i>Mus musculus</i>	..-....L.P.	..L.A..RK.	TPG.....	..A.T.GA..	.....GGGG	GGGGGGGG---	
Consensus	AALAAEPPPD	PGPGTGSPTA	VIGGRRRRRT	ALAGTRAAQG	SGGG-----	-----	
<i>Felis catus</i> (wildtype)	-AGRGHGRRG	RTRCSRRLPH	VDFKELGWDD	WIIAPLDYEA	YHCEGVCDFF	LRSHLEPTNH	400
<i>Felis catus</i> (mutant)	-----	-----	-----	-----	-----	-----	
<i>Homo sapiens</i>	-.....	.S...K...	.....	.....	....L....	.....	
<i>Equus caballus</i>	-.....	.S...K...	.....	.....	.....	.....	
<i>Bos Taurus</i>	-.....	.S...K...	.....	.....	.....	.....	
<i>Rattus norvegicus</i>	G.....	.S...KS..	.....	.....	.....	.....	
<i>Mus musculus</i>	-.....	.S...K...	.....	.....	.....	.....	
Consensus	-AGRGHGRRG	RSRCSRKPLH	VDFKELGWDD	WIIAPLDYEA	YHCEGVCDFF	LRSHLEPTNH	

<i>Felis catus</i> (wildtype)	AI	IQ	TLLNSM	AP	DAAPASCC	VP	ARLSPISI	LY	IDAANNVV	YK	QYEDMVVE	AC	GCR	455
<i>Felis catus</i> (mutant)	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
<i>Homo sapiens</i>	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
<i>Equus caballus</i>	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
<i>Bos Taurus</i>	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
<i>Rattus norvegicus</i>	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
<i>Mus musculus</i>	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Consensus	AI	IQ	TLLNSM	AP	DAAPASCC	VP	ARLSPISI	LY	IDAANNVV	YK	QYEDMVVE	AC	GCR	