

Homo sapiens	1	MAAGAGTAGPASGPGVVRDPAASQPRKRPGREGG...EGARRSDTMAGGGGSSDGSRAAGRRASRSSGRRRRGRHEPG	TGGPAER	CAG	EAR	LEE	AVNR	VWLK	FYF	HEAL
Gallus gallus	1	.....MAAKR...SRAAM	EEQEKTS	TRSD	DRQ	AVNR	VWLQ	FYF	HOAV	
Xenopus laevis	1	.....ME.....SNSTLR	ECGSP	DDP	CIQ	ERTIN	QWAFD	YYF	HTAV	
Xenopus tropicalis	1	.....ME.....TNSTLE	ERRSP	DSCKQ	ERTIN	QWVFD	YYF	HTAV		
Callithrix jacchus	1	.....GLGDVDFKPEALRPAQRELRRPRRGPGPPVL	LSPEAR	GRL	EAR	LEE	AVNR	VWLK	FYF	HEAL
Oryctolagus cuniculus	1	MAAGAGTAGPASGPGVVRDPAASQPRKRPSRGGG...EGARRSDAMAGGGGSSDGSGR	AGRAASRSGGRRRRGRHEPG	LGPGD	GRG	CAG	EAR	LEE	AVNR	VWLK
Bos taurus	1	MAAGAGTAGSAGSPGVVRDPAASQSRKRPGREGG...EGARRSDAMAGGGGSSDSSG	RAAGRRASRSGGRRRRGRHAP	LGGA	AER	CAG	EAR	LEE	AVNR	VWLK
Rattus norvegicus	1	.....MAGGGGSSDNGGAAANRRASRSGGRRRRGRHEPG	LGGA	AER	CAG	EAR	LEE	AVNR	VWLK	FYF
Mus musculus	1	MAAGAGTAGPASGPGVVRDPMASQPRKRPSREGGEGEGEGERRSNTMAGGGGSSDSSG	RAASRRASRSGGRRRRGRHEPG	LGGA	AER	CAG	EAR	LEE	AVNR	VWLK
Macaca mulatta	1	.....MAGGGGSSDGSRAAGRRASRSSGRRRRGRHEPG	LGGA	PAER	CAG	EAR	LEE	AVNR	VWLK	FYF
Monodelphis domestica	1	.....HETGLGGDGER	CLG	EAR	LEE	AVNR	VWLK	FYF	HEAL	
Canis familiaris	1	.....MAGGGGSSDGSRAAGRRASRSGGRRRRGRQEP	LGGA	TER	CAG	EAR	LEE	AVNR	VWLK	FYF
Taeniopygia guttata	1	.....GAGMA	ALPE	KM	VNG	VWLQ	FYF	HRAT		
Danio rerio	1	.....MSDKPC	EPS	WEO	IIN	RS	FD	FYA	FOAF	

[illegible]

Homo_sapiens	297	.....KE.DK.....QPAP.....
Gallus_gallus	247	EPL.....RRVKHSVGLRRAETAGGVAGAPSCPEMAKDPTGAPEHVGTVKDAVRAPCPAESTEDSQGTPRCAETARDVMGAPSPSEMTRDILL
Xenopus_laevis	230	.....QE.....
Xenopus_tropicalis	230	.....QE.....
Callithrix_jacchus	252	.....KE.DK.....QPAP.....
Oryctolagus_cuniculus	296	.....KE.DK.....QPAP.....
Bos_taurus	297	.....KEPQP.....QPAP.....
Rattus_norvegicus	255	.....KEE.....KHT.....
Mus_musculus	300	.....REE.....KHP.....
Macaca_mulatta	255	.....KE.DK.....QPAP.....
Monodelphis_domestica	224	.....QLAL.....
Canis_familiaris	255	.....KE.DK.....QPAP.....
Taeniopygia_guttata	207	.....EGASPAP.....
Danio_rerio	245	SAVSRQGLQQVFDLLSEQYGVGISFFQLQDSVEAEAQQQQEGGVAGPELCLTLSETPMQTVILSDT.....

Homo_sapiens	305	.....GVEKP.....PRE.P.....
Gallus_gallus	335	GAPKCTETARDVVRAPSPAESTKD.PVGT.PGHAETARDVARAPSPAETTKNLPGAPECADTVKNTVRAPSPAERRKDLVRA.PKRAETARDVVRAPSPAERVKDTAGASEPM
Xenopus_laevis	232	.....QITLH.....L.....QNE.SPRS.....
Xenopus_tropicalis	232	.....RTTSQ.....L.....QNE.SPRS.....
Callithrix_jacchus	260	.....GVEKP.....PRE.P.....
Oryctolagus_cuniculus	304	.....EPVAKP.....PRE.P.....
Bos_taurus	306	.....EPVEKP.....LRE.P.....
Rattus_norvegicus	261	.....EPVEKP.....LRE.P.....
Mus_musculus	306	.....EPVEKP.....LRE.P.....
Macaca_mulatta	263	.....GVEKP.....PRE.P.....
Monodelphis_domestica	228	.....EPIDKP.....LQE.P.....
Canis_familiaris	263	.....EPVQKP.....LKE.P.....
Taeniopygia_guttata	215	.....R.PAT.....SPEARHRLAE.L.....
Danio_rerio	311	.....E.....EQDE.PRRY.....

Homo_sapiens	315	.....A.RQL.RNPP.TTIGMMTLKAAAFKTL.SGAQ.DSEAAF.AKLDQK.DLVLPT.QALPA.SPAL.KNKRPR.KK
Gallus_gallus	445	KSASYPTASQPRIAAVKSSKVFSVPVEISEQP..AAAAPVHAGVSSRDLE.RTPFRITV.TTYGISVLRLREAFKML.SNSP.DSDALFNKLDDETDLPSPOQMSPSV.SHRTKRRKKE
Xenopus_laevis	245	.....PQVVSSEADCVISYGLSVLKSFKSLCQEE.DPDTIF.RGLCEMDFCRODTP.NDIPLEKA.....
Xenopus_tropicalis	245	.....SQVVSSEADCVISYGLSVLKSFKMSLCQEE.DTDTMFRKLCETDFCRKETP.IDIPVEKA.....
Callithrix_jacchus	270	.....TSR.SAASDTP.TTFGMATLKA.AFKTL.SGAQ.DSEAAF.AKLDQK.DLVLPT.QAPST.SPAL.KNKRPR.I
Oryctolagus_cuniculus	314	.....GRQ..LQNTPTTIGITTLKAAAFKALS.GAQ.DSDAAF.SKLDQK.DLVLPT.QVTPP.SPAL.KNKRPR.KK
Bos_taurus	316	.....ASRQL.QSTPTTIGITTLKAAAFKALS.SAQ.DSEAAF.SKLDQK.DMVFNP.KVCPP.SPAL.KNKRPR.KK
Rattus_norvegicus	271	.....P.RQP.RNPP.TTIGLRTVKA.AFKALS.TAQ.DSEAAF.AKLDQK.DLVLPT.LASPS.PTHKNKRPR.KK
Mus_musculus	316	.....PSRQP.QNPPATTIGITTLKAAAFKALS.TAQ.DSEAAF.AKLDQK.DLVLPT.LASPS.SPA.HKKRPR.KK
Macaca_mulatta	273	.....T.RQL.RNPP.TTIGMMTLKAAAFKTL.SGAQ.DSEAAF.AKLDQK.DLVLPT.QASPA.SPAL.KNKRPR.KK
Monodelphis_domestica	238	.....MR..PLPESPATFGISTLKKAFKSL.SDSQ.DDAAF.TKLDQK.DVILARPVS.P.SAAL.KNKRPR.Q
Canis_familiaris	273	.....V.RQL.RSTPTTIGITTLKAAAFKTL.SAQ.DSEAAF.SKLDQK.DLVLPT.QVSMP.SPAL.KNKRPR.KK
Taeniopygia_guttata	231	.....P.QPPGAVTSCGISVLRLREAFKTL.SDSG.DPDTLFT.KLDET.DLPCPK.QLSPSV.SHRTKRCRE
Danio_rerio	320	.....AGMTISRLVQEEDSQISAETHIEDEEEEEEQTHTHRGDD..CSLSEPPQCS.ST...QRSTPARLCK.....RSNTRVQQSE.SESQS.SPA.HRSTPARA

Homo_sapiens	376	.....D.....	ENES	SAPAD	GEGGS	ELQP	.KNKR	MTISRLVLE	EDSQ	STEP	SAGLN	SSQE	AASA	...PP	SKPT	V...L	NQPL	LPGE	KNP	KVP	KG	KGW
Gallus_gallus	552	.....E.....	KNQGS	SET...	LDSP	EIPHK	SKRLF	TISK	IMMD	QSQ	SKS	SESPD	SSQER	VVS...	SA	YRP	VQ	ELPD	QPV	ST...	KRSS	QQRW
Xenopus_laevis	303	.....G.....	TDTE	ES...	ILGR	HRK	KLV	VSL	KQV	VID	KDSQ	CIHL	SENS	NVSS	DR	NQA	APSA	QKP	KN...	QQIT	PK	RKLNSML
Xenopus_tropicalis	303	.....G.....	HTTE	EPDSL	I	ERKG	KLV	VSL	QQLVM	KDNQ	CINL	SENAN	I	SHDS	AHQ	NVSSA	QKP	QN...	PQIT	PK	RKLNSML	
Callithrix_jacchus	333	.....D.....	ENGSS	SAPAE	GEGGS	ELQL	.KNKR	MTISRLVLE	KDSQ	VTEP	STGLS	SSQE	AVPA	...PP	SKPT	V...L	NQPL	LPGE	KNP	KIP	KG	KGW
Oryctolagus_cuniculus	375	.....D.....	ENES	SAPAE	GEGGS	ELQP	.KSKRM	TISRLILE	EDSQ	STEP	STGLT	SSQE	AVPA	...SP	PKPT	TA...	LNQPR	PREI	ISLR	VVP	KSKW	
Bos_taurus	378	.....D.....	DNES	SAPTE	GEGGS	ELQP	.KITKR	MTISRLVLE	EDSQ	STEP	SSGLD	SSQE	VTPA	...SP	SKPT	TV...	LNQPL	LPGE	KNP	KVT	KG	KGW
Rattus_norvegicus	332	.....D.....	ENES	SAPAE	GEGGS	ERQP	.RNNRM	TISRLVLE	EDSQ	SSEP	SPDLN	SSRQA	L	SA...	SP	SKPR	RA...	LNQPH	TGE	KNP	KAS	KDKW
Mus_musculus	378	.....D.....	EHESA	APAE	GEGGS	DRQP	.RNSP	MTISRLLE	EDSQ	STEP	SPGLN	SSHKA	MS...	A	SKPR	RA...	LNQPH	PGE	KKP	KAS	KDKW	
Macaca_mulatta	334	.....D.....	DNES	SAPAE	GEGGS	ELQP	.KNKR	MTISRLVLE	EDSQ	STEP	SAGLN	SSQE	AAPA	...PP	SKPT	V...L	NQPL	LPGE	KNP	KVP	KG	KGW
Monodelphis_domestica	298	.....E.....	...ESS	SDS	ADNS	ELQP	.KNKR	MTISRLVLE	HDSQ	ISEQ	SDSPD	SSQET	IVS...	SA	SNST	VLKL	HNQPL	LSGE	SHK	KIHK	KDKW	
Canis_familiaris	334	.....D.....	ENES	SAPAE	GEGGS	ELQP	.KNKR	MTISRLVLE	EDSQ	STEP	SASLD	SSQE	VVPA	...SP	SKPT	TV...	LNQPL	LPGE	KNP	KVP	KG	KGW
Taeniopygia_guttata	292	.....V.....	ENQAS	SET...	SQPP	EMPHN	IKNLF	SISN	LIME	LSSS	SKS	SECPD	SSQE	HVVS...	SA	SKPA	P	KLPE	EP	LA...	AQR	RW
Danio_rerio	407	SHPSNPRSSTRKKTTPSRRI	IESSDS	ENEQT	TAA	AATHTP	RGQRQ	HRS	I...	RV	SSGE	PE	VDS	...	TSPA	AHTR	STP	TSTH	TRT	TK	SKW

Homo_sapiens	454	NSSNGVEE	.KETW	VEEDEL	QVQA...	APDEDS	TTN	IT	KKQK	WTV	EESEW	VKA	GVQ	KY	YEGE	NWAA	ISKNY	PFV	NRTA	VM	IKDR	WRTM	KKRL	GMN...			
Gallus_gallus	627	NSSYGEE	.KDSWS	DEDELE	TDAALT	TETSS	NNST	IVYGS	KKQK	WTV	QEESEW	IKD	GVRR	KY	YEGE	RWKT	ISEKY	PFQ	NRTS	VQ	IKDR	WRTM	KKKL	GLA...			
Xenopus_laevis	374	DRS.DIVE	RDNWI	EADELE	GSKRE	ENGKTS	NNIT	STNS	KKQK	WTEDE	TEW	IK	GVRR	KY	YEGE	NWKD	IMKNY	PF	LNRT	SV	MIKDR	WRTM	KKKL	GLIVPDK			
Xenopus_tropicalis	377	DGS.DIVE	QDTWS	EADELE	KSKRE	ENVKT	NNTT	TTNG	KKQK	WTEDE	TEW	IK	GVRR	KY	YEGE	NWKD	ILKK	PF	QNRT	SV	MIKDR	WRTM	KKKL	GLIVPNN			
Callithrix_jacchus	411	NSSNGVEE	.KETW	VEEDEL	QVQA...	APDEDS	TTN	VT	KKQK	WTV	EESEW	VKA	GVQ	KY	YEGE	NWAA	ISKNY	PFV	NRTA	VM	IKDR	WRTM	KKRL	GMN...			
Oryctolagus_cuniculus	453	NSSNGVEE	.KETW	VEEDEL	QVQGE...	PWNRL	GASL	LILLO	KWTV	EESEW	VKA	GVQ	KY	YEGE	NWAA	ISKNY	PFV	NRTA	VM	IKDR	WRTM	KKKL	GMN...				
Bos_taurus	456	NSSNGVEE	.KETW	VEEDEL	QVQA...	APDEES	ATNTT	TT	KKQK	WTV	EESEW	VKA	GVQ	KY	YEGE	NWAA	ISKNY	PFV	NRTA	VM	IKDR	WRTM	KKRL	GMN...			
Rattus_norvegicus	410	NSPNGLEE	.KEVWS	EEDOLF	EVRA...	PGEDK	SSNL	LARKQ	KWTV	EESEW	VKD	GVQ	KY	YEGE	NWAA	ISKSY	PFV	NRTA	VM	IKDR	WRTM	KKKL	GLN...				
Mus_musculus	454	NSPNGLEE	.KEVW	LEEDOLF	EVQA...	PGEDR	SSSLT	TRKQ	KWTV	EESEW	VKD	GVRR	KY	YEGE	NWAA	ISKSY	PFV	NRTA	VM	IKDR	WRTM	KKKL	GMN...				
Macaca_mulatta	412	NSSNGVEE	.KETW	VEEDEL	QVQA...	APDEDS	TTN	IT	KKQK	WTV	EESEW	VKA	GVQ	KY	YEGE	NWAA	ISKNY	PFV	NRTA	VM	IKDR	WRTM	KKRL	GMN...			
Monodelphis_domestica	376	NSSNGLEE	.KDTWL	EEEELE	HVQV	VPTSE	WSTH	TNPLT	LKQK	WTV	QEESEW	IKA	GVRR	KY	YEGE	NWAA	ISKNE	PFV	NRTA	VM	IKDR	WRTM	KKKL	GMN...			
Canis_familiaris	412	DSSNGAEE	KRHTWL	EEEELE	QVQG	KSSAP	DEEST	TSIT	KKQK	WTV	EESEW	VKA	GVQ	KY	YEGE	NWAA	ISKNY	PFV	NRTA	VM	IKDR	WRTM	KKKL	GMN...			
Taeniopygia_guttata	363	NSSCGTEE	.KDSWS	DEDELE	FANAEP	G	LPNS...	PHAG	QVLK	WTV	QEESEW	IK	GVRR	KY	YEGE	WK	ICKL	Y	PF	NRRTA	VM	IKDR	WRTM	KKKL	GMN...		
Danio_rerio	494	LDVSGI...	QDNWS	DEDSLE	HTST	APA...	...	KKY	T	RRM	WSVQ	ESEWLK	Q	GLV	R	YGV	G	WER	IR	SAEP	PF	AGRT	AVNL	KDR	WRTM	VKL	KMV...