

	10	20	30	40	50
<i>Odocoileus virginianus</i> (*)	MTGSFWLLLS	LVAVTAAQST	TEEQAKTFLE	KFNHEAEDLS	YQSSLASWNY
<i>Capreolus Capreolus</i>	.....~.....	.....	.....	.....	.....
<i>Cervus elaphus</i>	.....	.....	N.....	.....	.....
<i>Muntiacus muntjak</i>	.....	.....	.....	.....	.....
<i>Oryx dammah</i> (*)	.....	.....	G.....	.....	.....
<i>Nanger dama</i> (*)	-----	-----	-----	-----	-----
<i>Bubalus bubalis</i> (*)	.....S-	.....	.....	.....	.....
<i>Bos taurus</i> (*)	.....	.....	.....	.....	.....
<i>Balaenoptera musculus</i> (*)	.S.....	.....	.....Q.....	D.....	.....
<i>Tursiops truncatus</i> (*)	.S.....	A.....	R.....	Q.....	DR.....
<i>Sus scrofa</i> (.)	.S.....	IP.....	.....L.....	.....L.....	.....A.....
<i>Manis pentadactyla</i> (*)	.S..S.....	.....	SD.....	E.....	S.....E.....
<i>Felis catus</i> (*)	.S.....	FA.L.....	.....L.....	.....	.....E.....
<i>Mustela putorius</i>	.L..S.....	A.L.....	.....DL.....	.....Y.....	.....E.....N.....
<i>Neogale vison</i>	.L..S.....	A.L.....	.....DL.....	.....Y.....	.....E.....N.....
<i>Canis lupus</i> (.)	.S..S.....	A.L.....	-.....DLV.....	.....Y.....	.....E.....
<i>Nyctereutes procyonoides</i> (*)	.S..S.....	A.L.....	-.....DLVN.....	.....Y.....	.....E.....
<i>Rhinolophus ferrumequinum</i>	.S..S.....	.....	.....DL.....	K.....D.....D.....	S.....N.....H.....E.....
<i>Rousettus aegyptiacus</i>	.S.....F.....	.....	P.....L.....	.....T.....	.....F.....DF.....
<i>Homo sapiens</i> (*)	.SS.S.....	.....	I.....	D.....	.....F.....
<i>Ptilocolobus tephrosceles</i> (*)	.S..S.....F.....	.....	I.....	D.....	.....F.....
<i>Macaca mulatta</i> (*)	.S..S.....	.....	I.....	D.....	.....F.....
<i>Macaca nemestrina</i> (*)	.S..S.....	.....	I.....	D.....	.....F.....
<i>Choloepus didactylus</i>	.S..S.....	F.....	-.....L.....	D.....T.....	QQ.....H.....HA.....D.....
<i>Anas platyrhynchos</i>	.LAHVL..CG	.ST.VVP..D	VTN.....M.....	A.....E.....VR.....	IN.....EN.....D.....
<i>Gallus gallus</i>	.LLH....CG	.S..VTP..D	VTQE.Q.....	A.....E.....VR.....	I.....EN.....

	60	70	80	90	100
<i>Odocoileus virginianus</i> (*)	NTNITDENVQ	KMNEARAKWS	AFYEEQSFMA	KTYSLLEEIQN	LTLKRQLKAL
<i>Capreolus Capreolus</i>	.....	.....	.....	.....	.....
<i>Cervus elaphus</i>	.....	.....	.....	.....	.....
<i>Muntiacus muntjak</i>	.....	.....	.....	.....	F.....
<i>Oryx dammah</i> (*)	.....	.....	.....	R.....	.....
<i>Nanger dama</i> (*)	.....	.....	.....	.....	.....
<i>Bubalus bubalis</i> (*)	.....	.....	.....	.....	.....
<i>Bos taurus</i> (*)	.....	.....	.....	.....	.....
<i>Balaenoptera musculus</i> (*)	.....	A.....	I.....	P.....	Q.....
<i>Tursiops truncatus</i> (*)	.....	A.G.....	I.....	P.....R.....	QV.....
<i>Sus scrofa</i> (.)	.....I.....	D.....	I.....	P.D.....T.....	I.....Q.....
<i>Manis pentadactyla</i> (*)	.....	V.G.....	T.....KI.....	N.Q.QN.....	D.I.....Q.....
<i>Felis catus</i> (*)	.....	G.....	KL.....	P.A.H.....	T.V.....Q.....
<i>Mustela putorius</i>	.....I.....	I.G.....	E.QH.....	P.....D.....	PII.....R.....
<i>Neogale vison</i>	.....I.....	I.G.....	E.QH.....	P.....D.....	PII.....R.....
<i>Canis lupus</i> (.)	I.....	N.G.....	KL.....	P.....D.....	S.V.....R.....
<i>Nyctereutes procyonoides</i> (*)	.....L.....	N.G.....	KL.....	P.....D.....	S.V.....R.....
<i>Rhinolophus ferrumequinum</i>	S.....	D.G.....	D.KK.KL.....	NF.....H.....	D.V.L.QI.....
<i>Rousettus aegyptiacus</i>	I.....	SK.....T.....	KL.....	Q.D.....D.....	PE.L.RI.....
<i>Homo sapiens</i> (*)	E.....	N.N.GD.....	LK.TL.....	QM.P.Q.....	V.L.Q.....
<i>Ptilocolobus tephrosceles</i> (*)	E.A.N.N.GE.....	LK.TL.....	QM.P.Q.....	V.L.Q.....	V.L.Q.....
<i>Macaca mulatta</i> (*)	E.....	N.N.GE.....	LK.TL.....	QM.P.Q.....	V.L.Q.....
<i>Macaca nemestrina</i> (*)	E.....	N.N.GE.....	LK.TL.....	QM.P.Q.....	V.L.Q.....
<i>Choloepus didactylus</i>	.....AL.....	G.R.....	KL.....	FP.Q.S.....	N.V.L.Q.....
<i>Anas platyrhynchos</i>	E.TAT.....	G.....	A.N.....	SNFP.SD.....	D.PL.RL.IQS.....
<i>Gallus gallus</i>	E.TAR.....	S.G.....A.....	A.N.....	SFP.AN.....	D.AVTRL.IQS.....

	110	120	130	140	150
<i>Odocoileus virginianus</i> (*)	QQSGTSLVLSA	EKSKRLNTIL	NTMSTIYSTG	KVLDPN-TQE	CLALEPGLDD
<i>Capreolus Capreolus</i>	.....XX XXXXX.	.....	.....	.....-	.....
<i>Cervus elaphus</i>	.....	.....	.....	.....-	.....
<i>Muntiacus muntjak</i>	.....	.....	.....	.....-	.....
<i>Oryx dammah</i> (*)	.H.....T	.....	.K.....	.....-	.....
<i>Nanger dama</i> (*)	-----	-----	-----	-----	-----
<i>Bubalus bubalis</i> (*)	.H...A... ..Q...	.K.....	.....-	.....	.....
<i>Bos taurus</i> (*)	.H...A... ..Q...	.K.....	.....-	.....	.....
<i>Balaenoptera musculus</i> (*)	.....	D.....	.....S	.....-	Y.V.....
<i>Tursiops truncatus</i> (*)	.....	D.....A..	S.....S	.....-	S.V.....
<i>Sus scrofa</i> (.)	.....G..	D.....	.....S	.....NP	.....V.....E
<i>Manis pentadactyla</i> (*)	.L..S.A... D.NQ...	.....	.....	.CN.GNP	.SL.....N
<i>Felis catus</i> (*)	.....S.....	D..Q.....	.A.....	.ACN.NP	.....L.....
<i>Mustela putorius</i>	.....S.....	D.RE.....	.A.....	.ACN.NP	.....L.....
<i>Neogale vison</i>	.....S.....	D.RE.....	.A.....	.ACN.NP	.....L.....
<i>Canis lupus</i> (.)	.H..S.....	D.NQ.....	.S..V....	.ACN.SNP	.....L.....
<i>Nyctereutes procyonoides</i> (*)	.H..S.....	D.NQ.....	.S.....	.ACN.SNP	.....L.....
<i>Rhinolophus ferrumequinum</i>	.....SP...E D.....S..	.A.....	.....	.CK.NP	.....L.....N
<i>Rousettus aegyptiacus</i>	.....S.T... D.T...D..	.....	.....	.ICQ.NS	.....L.....
<i>Homo sapiens</i> (*)	..N.S...E D.....	.....	.....	.CN.DNP	.....L.....NE
<i>Ptilocolobus tephrosceles</i> (*)	..N.S...E D.....	.....	.....	.CN.NP	.....L.D...NE
<i>Macaca mulatta</i> (*)	..N.S...E D.....	.....	.....	.CN.NP	.....L.D...NE
<i>Macaca nemestrina</i> (*)	..N.S...E D.....	.....	.....	.CN.NP	.....L.D...NE
<i>Choloepus didactylus</i>	.....S.....	D.N...I..	.A..S....	.CNASNP	.FF.....
<i>Anas platyrhynchos</i>	.DK.S...P ..YS...V..	.....	.....	T.CKTTAPFD	.MV.....S
<i>Gallus gallus</i>	.DR.S...P ..YS...SVM	.S.....	.....	V.CKATEPFD	..V.....

	160	170	180	190	200
<i>Odocoileus virginianus</i> (*)	IMENSRDYNR	RLWAWEGWRA	EVGKQLRPLY	EEYVVLEENEM	ARANNYEDYG
<i>Capreolus Capreolus</i>	.....S.	.....	.....	.....	...X.....
<i>Cervus elaphus</i>	.....	.....	.....	.....	.....
<i>Muntiacus muntjak</i>	.....	.....	.....	.....	.....
<i>Oryx dammah</i> (*)	.....	.....	.....	.....	.....
<i>Nanger dama</i> (*)	-----	-----	-----	-----	-----
<i>Bubalus bubalis</i> (*)	.....	.....	.....	.....	.....
<i>Bos taurus</i> (*)	.....	.....	.....	.....	.....
<i>Balaenoptera musculus</i> (*)	.....E.....	.....	.....F.....	.....	.....
<i>Tursiops truncatus</i> (*)	.....K.....	.....	.....	.....	.....
<i>Sus scrofa</i> (.)	.....K..S.....	.....S.....	.....	.....	.....
<i>Manis pentadactyla</i> (*)	...S.K..E.....	.....S.....	.....	.....K.....	.....H.....
<i>Felis catus</i> (*)	.....K..E.....	.....	.....	.....A.K.....	.....
<i>Mustela putorius</i>	.....K..E.....	.....S.....	.....	.....A.K.....	.....
<i>Neogale vison</i>	.....K..E.....	.....S.....	.....	.....A.K.....	.....
<i>Canis lupus</i> (.)	.....K..E.....	.....S.....	.....	.....A.K.....	.....
<i>Nyctereutes procyonoides</i> (*)	.....K..E.....	.....S.....	.....	.....A.K.....	.....
<i>Rhinolophus ferrumequinum</i>	...T.K..E.....	.....	.....	.....K.....	.....GYH.....
<i>Rousettus aegyptiacus</i>	...S.K..SQ.....	.....S..S.....	.....Y.....	.....K.....	.....GE.....
<i>Homo sapiens</i> (*)	..A..L..E.....	.....S..S.....	.....	.....K.....	.....H.....
<i>Ptilocolobus tephrosceles</i> (*)	...K.L..E.....	.....S.....	.....	.....K.....	.....H.K.....
<i>Macaca mulatta</i> (*)	...K.L..E.....	.....S.....	.....	.....K.....	.....G..H.K.....
<i>Macaca nemestrina</i> (*)	...K.L..E.....	.....S.....	.....	.....K.....	.....H.K.....
<i>Choloepus didactylus</i>	.....DE.....	.....S.....	.....L.....	.....K.....	.....
<i>Anas platyrhynchos</i>	..A..I..HE.....	.....D..RMM.....	.....	.....D.K..A.....	..KL.G.A.....
<i>Gallus gallus</i>	..A..I..HE.....	.....D..RMM.....	.....	.....E.K..A.....	..L...S.....

	210	220	230	240	250
<i>Odocoileus virginianus</i> (*)	DYWRGDYEVT	EAGDYDYSRD	QLMKDVENTF	AEIKPLYEQL	HAYVRAKLMD
<i>Capreolus Capreolus</i>	.....	.....	.....H..	.....	.....
<i>Cervus elaphus</i>	.....	.....	.....H..	.....	.....
<i>Muntiacus muntjak</i>	.....	.....	.....H..	.....	.....
<i>Oryx dammah</i> (*)	.....	G.....	.....R..	.....	.....
<i>Nanger dama</i> (*)	-----	-----	-----	-----	-----
<i>Bubalus bubalis</i> (*)	.....	G.....	.....H..	.....	.....H
<i>Bos taurus</i> (*)	.....	G.....	.....R..	.....	.....H
<i>Balaenoptera musculus</i> (*)	.....	G..V....N	..IA...R..	.....	.....
<i>Tursiops truncatus</i> (*)	.....	G.....	..IR...R..	.....	.....
<i>Sus scrofa</i> (.)	.....	GT.....N	..E...R..	.....H.	.....
<i>Manis pentadactyla</i> (*)	.....TE	G..NG..N...	H..IE...HI	TQ.....H.	.....
<i>Felis catus</i> (*)	.....EE	WTDG..N...S	..I...H..	TQ.....QH.	.....
<i>Mustela putorius</i>	.....EE	W..DG..S...N	..IE...H..	TQ.....H.	.....
<i>Neogale vison</i>	.....EE	W..DG..N...N	..IE...H..	TQ.....H.	.....
<i>Canis lupus</i> (.)	.....EE	WENG..N...N	..ID...L..	TQ..M...QH.	.....T....
<i>Nyctereutes procyonoides</i> (*)	.....EE	WENG..N...N	..ID...H..	TQ..M...QH.	.....T....
<i>Rhinolophus ferrumequinum</i>	....R...TE	GSP..LE....	..I...RI.	.....	.....T....
<i>Rousettus aegyptiacus</i>	.....TE	GINGSA..T..	..IE...DRI	T.....	.....T....
<i>Homo sapiens</i> (*)	.....N	GVDG.....G	..IE...H..	E.....H.	.....N
<i>Ptilocolobus tephrosceles</i> (*)	.....AN	GVDG...N..	..IE...H..	E.....H.	.....N
<i>Macaca mulatta</i> (*)	.....N	GVDG..NN..	..IE...R..	E.....H.	.....N
<i>Macaca nemestrina</i> (*)	.....N	GVDG...N..	..IE...R..	E.....H.	.....N
<i>Choloepus didactylus</i>	.....TE	GENG..A..N.S	..I...H..	E.....H.	.....T..T.
<i>Anas platyrhynchos</i>	....AN...AD	YP EE..K....	..IQ...K..	EQ.....Q..	.....HR.EQ
<i>Gallus gallus</i>	....AN...TD	YP EE..K....	..VQ...K..	EQ.....QH.	.....HR.EQ

	260	270	280	290	300
<i>Odocoileus virginianus</i> (*)	TY-PSYISPT	GCLPAHLLGD	MWGREFWTNLY	SLTVPFKHKP	SIDVTEKMKN
<i>Capreolus Capreolus</i>	..-.....	.....X	.....	.....	.....E.
<i>Cervus elaphus</i>	..-.....	.....	.....	.....	.....E.
<i>Muntiacus muntjak</i>	A.-.....	.....	.....	.....	.....I...E.
<i>Oryx dammah</i> (*)	..-.....	.....	.....	.....E.	.....
<i>Nanger dama</i> (*)	-----	-----	-----	-----	-----
<i>Bubalus bubalis</i> (*)	..-.....	.....	.....	.....E.	.....E.
<i>Bos taurus</i> (*)	..-.....	.....	.....	.....E.	.....E.
<i>Balaenoptera musculus</i> (*)	A.-..R....	.....	.....	P.....GE.	.....KE.Q.
<i>Tursiops truncatus</i> (*)	A.-..R....	.....	.....	P.....GER.	.....KE.Q.
<i>Sus scrofa</i> (.)	A.-..R....	.....	.....	P.....GE.	.....A.V.
<i>Manis pentadactyla</i> (*)	N.-..H....	.....	.....	P.....RQ.	N.....DA.V.
<i>Felis catus</i> (*)	..-..R....	.....	.....	P.....GQ.	N.....DA.V.
<i>Mustela putorius</i>	A.-..R....	.....	.....	P.M...RQ.	N.....DA.V.
<i>Neogale vison</i>	A.-..R....	.....	.....	P.M...GQ.	N.....DA.V.
<i>Canis lupus</i> (.)	..-.....	.....	.....	P.....GQ.	N.....NA.V.
<i>Nyctereutes procyonoides</i> (*)	..-.....	.....	.....	P.....GQ.	N.....NA.V.
<i>Rhinolophus ferrumequinum</i>	..-..FH....	.....	.....	P.....GQ.	N.....DA.L.
<i>Rousettus aegyptiacus</i>	A.-..H....	.....	I....	P.....EQ.	N.....DE.V.
<i>Homo sapiens</i> (*)	A.-.....I	.....	.....	.....GQ.	N.....DA.VD
<i>Ptilocolobus tephrosceles</i> (*)	A.-.....	.....	.....	.....GQ.	N.....DA.V.
<i>Macaca mulatta</i> (*)	A.-.....	.....	.....	.....GQ.	N.....DA.V.
<i>Macaca nemestrina</i> (*)	A.-.....	.....	.....	.....GQ.	N.....DA.V.
<i>Choloepus didactylus</i>	F.-..H....	.....	.....	.....E.	N.....DE.VR
<i>Anas platyrhynchos</i>	A.GSQF..S.	.....	.....	P.....YPA.	N.....DA.VQ
<i>Gallus gallus</i>	V.GSEL.N..	.....	.....	N.....YPE.	N.....SA.AQ

	310	320	330	340	350
<i>Odocoileus virginianus</i> (*)	QSWDAERIFK	EAEKFFVSIS	LPHMTQGFWD	NSMLTEPGDG	RKVVCHPTAW
<i>Capreolus Capreolus</i>	.....	.....	.....	.....	.....
<i>Cervus elaphus</i>	.....	G	.....	.....	.....
<i>Muntiacus muntjak</i>	.....R	.....	.....	.....	.....
<i>Oryx dammah</i> (*)	.....	.....	Y	.....	.....
<i>Nanger dama</i> (*)	-.....	.....	Y	E	.....
<i>Bubalus bubalis</i> (*)	.....	.....	Y	.....	.....
<i>Bos taurus</i> (*)	.....	.....	Y	.....	.....
<i>Balaenoptera musculus</i> (*)	.....K	G	N	E	V
<i>Tursiops truncatus</i> (*)	.....K	G	N	.....	.....
<i>Sus scrofa</i> (.)	.....I	E	G	N	N
<i>Manis pentadactyla</i> (*)	T	N	VG	K	T
<i>Felis catus</i> (*)	.....R	VG	N	E	S
<i>Mustela putorius</i>	.....R	E	T	VG	N
<i>Neogale vison</i>	.....R	VG	N	E	Q
<i>Canis lupus</i> (.)	.....RK	VG	N	E	G
<i>Nyctereutes procyonoides</i> (*)	.....RK	VG	N	E	S
<i>Rhinolophus ferrumequinum</i>	N	K	.....	G	N
<i>Rousettus aegyptiacus</i>	N	N	K	.....	LG
<i>Homo sapiens</i> (*)	A	Q	.....	VG	N
<i>Ptilocolobus tephrosceles</i> (*)	A	N	Q	.....	VG
<i>Macaca mulatta</i> (*)	A	N	Q	.....	VG
<i>Macaca nemestrina</i> (*)	A	N	Q	.....	VG
<i>Choloepus didactylus</i>	A	K	.....	VG	K
<i>Anas platyrhynchos</i>	KN	VK	A	A	S
<i>Gallus gallus</i>	KN	MK	T	A	A

	360	370	380	390	400							
<i>Odocoileus virginianus</i> (*)	DLGKGD	ERIK	MCTKVT	DDF	LTAHHE	MCHI	QYDM	AYAA	QP	YLIR	DGAN	EG
<i>Capreolus Capreolus</i>	N	.
<i>Cervus elaphus</i>	N	.
<i>Muntiacus muntjak</i>	N	.
<i>Oryx dammah</i> (*)	N	.
<i>Nanger dama</i> (*)	N	.
<i>Bubalus bubalis</i> (*)	N	.
<i>Bos taurus</i> (*)	N	.
<i>Balaenoptera musculus</i> (*)	T	F	N	.
<i>Tursiops truncatus</i> (*)	T	F	N	.
<i>Sus scrofa</i> (.)	I	.	N	.
<i>Manis pentadactyla</i> (*)	.	H	.	.	.	.	.	.	M	.	N	.
<i>Felis catus</i> (*)	V	F	N	.
<i>Mustela putorius</i>	.	R	.	.	.	.	.	.	E	F	N	.
<i>Neogale vison</i>	.	H	.	.	.	.	.	.	.	F	N	.
<i>Canis lupus</i> (.)	F	N	.
<i>Nyctereutes procyonoides</i> (*)	.	R	.	.	.	.	.	.	.	F	N	.
<i>Rhinolophus ferrumequinum</i>	E	.	.	.	S	.	N	.
<i>Rousettus aegyptiacus</i>
<i>Homo sapiens</i> (*)	.	.	I	.	K	E	.	Y	T	.	.	.
<i>Ptilocolobus tephrosceles</i> (*)	.	.	L	.	.	.	.	.	.	F	N	.
<i>Macaca mulatta</i> (*)	.	.	L	.	.	.	.	.	.	F	S	.
<i>Macaca nemestrina</i> (*)	.	.	I	.	.	.	.	.	.	F	N	.
<i>Choloepus didactylus</i>	.	.	I	.	.	.	.	.	.	F	N	.
<i>Anas platyrhynchos</i>	M	N	Y	.	.	.	.	E	SQ	F	G	.
<i>Gallus gallus</i>	M	N	Y	.	.	.	.	E	SV	F	.	.

	410	420	430	440	450

<i>Odocoileus virginianus</i> (*)	FHEAVGEIMS	LSAATPHYLK	ALGLLEPDFY	EDNETEINFL	LKQALTIVGT
<i>Capreolus Capreolus</i>
<i>Cervus elaphus</i>
<i>Muntiacus muntjak</i>
<i>Oryx dammah</i> (*)	A.....	.....	.....
<i>Nanger dama</i> (*)	A.....	.....	.....
<i>Bubalus bubalis</i> (*)	A...H	.....	.....
<i>Bos taurus</i> (*)	A...H	.....	.....
<i>Balaenoptera musculus</i> (*)	P.....	V.....	Q.....
<i>Tursiops truncatus</i> (*)	P.....	SA.....	.....
<i>Sus scrofa</i> (.)	P.....	S.....	.....
<i>Manis pentadactyla</i> (*)	KH..NI..	P.....	.....	.....
<i>Felis catus</i> (*)	NH..TI..	S.G.S	S.....	.....
<i>Mustela putorius</i>	NH..NI..	P..S	S..D	.....
<i>Neogale vison</i>	NH..NI..	P..S	S..D	.....
<i>Canis lupus</i> (.)	NH..NI..	P.S.F	S.....	.....
<i>Nyctereutes procyonoides</i> (*)	NH..NI..	P.S.F	S.....	.....
<i>Rhinolophus ferrumequinum</i>	.....V..	..V..KH..	TM...SS..L	.....F.....	..N.....
<i>Rousettus aegyptiacus</i>	.....VI..	..V..NH..	NM...P.....	.....	..NV.....
<i>Homo sapiens</i> (*)	KH..SI..	S...Q	.....	.....
<i>Ptilocolobus tephrosceles</i> (*)	KH..SI..	S...Q	.....	.....
<i>Macaca mulatta</i> (*)	KH..SI..	S...Q	.....	.....
<i>Macaca nemestrina</i> (*)	KH..SI..	S...Q	.....	.....
<i>Choloepus didactylus</i>	KH..I...P..	Q..F.....	.....	.....
<i>Anas platyrhynchos</i>	EH..S.D...	T.Q..E.....	.....	.....
<i>Gallus gallus</i>	QH..S.D...	T.Q..E.....	.....	.....

	460	470	480	490	500

<i>Odocoileus virginianus</i> (*)	LPFTYMLEKW	RWMVFKGEIP	KEQWMEKWWE	MKREIVGVVE	PLPHDETYCD
<i>Capreolus Capreolus</i>
<i>Cervus elaphus</i>	Q.....	.....	.....
<i>Muntiacus muntjak</i>	Q.....	.....	.....
<i>Oryx dammah</i> (*)	Q.....	.....	.....
<i>Nanger dama</i> (*)	Q.....	.....	.....
<i>Bubalus bubalis</i> (*)	Q.....	.....	.....
<i>Bos taurus</i> (*)	Q.....	.....	.....
<i>Balaenoptera musculus</i> (*)	Q.....	.....	.....
<i>Tursiops truncatus</i> (*)	Q.....	.....	.....
<i>Sus scrofa</i> (.)	Q.....	.....	.....
<i>Manis pentadactyla</i> (*)	S.Q.....	K.....	.....	V.....
<i>Felis catus</i> (*)	Q.....	.....	V.....
<i>Mustela putorius</i>	Q.....	D.....	.....
<i>Neogale vison</i>	Q.....	D.....	.....
<i>Canis lupus</i> (.)	D...KT...	N.....	V.....
<i>Nyctereutes procyonoides</i> (*)	D...KT...	N.....	V.....
<i>Rhinolophus ferrumequinum</i>	E...K.....	K.....	V.....
<i>Rousettus aegyptiacus</i>	L.....	.....
<i>Homo sapiens</i> (*)	D...K.....	.....	V.....
<i>Ptilocolobus tephrosceles</i> (*)	E.....	D...K.....	.....	V.....
<i>Macaca mulatta</i> (*)	D...K.....	.....	V.....
<i>Macaca nemestrina</i> (*)	D...K.....	.....	V.....
<i>Choloepus didactylus</i>	R.....	TK.....	Q.....M.....	V....S.....
<i>Anas platyrhynchos</i>	M.....	R...T.....	QE.TKQ.....	D.....	V.....
<i>Gallus gallus</i>	M.....	N...T.....	QE.TKR..K.....	.....	V.....

	510	520	530	540	550

<i>Odocoileus virginianus</i> (*)	PACLFHVAED	YSFIRYYTRT	IYQFQFHEAL	CKTANHEGAL	FKCDISNSTE
<i>Capreolus Capreolus</i>	.....	.....	.....	.....	.....
<i>Cervus elaphus</i>	.....	.....	.....	K.....	.....
<i>Muntiacus muntjak</i>	.....	.....	.....	.....	.....
<i>Oryx dammah</i> (*)	.....	.....	.....	K.....	.....
<i>Nanger dama</i> (*)	.....	.....	.....	K.....	.....
<i>Bubalus bubalis</i> (*)	.....	.....	.....	K.....	.....
<i>Bos taurus</i> (*)	.....	.....	.....	K.....	.....
<i>Balaenoptera musculus</i> (*)	.....	.....	.....	Q..K...P.	Y.....
<i>Tursiops truncatus</i> (*)	.....	.....	.....	Q..K...P.	Y.....
<i>Sus scrofa</i> (.)	.....	.....	.....	R..K...P.	Y.....
<i>Manis pentadactyla</i> (*)	..S....N.	.....	.....Q...	Q..K...P.	H.....
<i>Felis catus</i> (*)	..S....N.	.....	.....Q...	RI.K...P.	H.....S.
<i>Mustela putorius</i>	..A....N.	.....	.....Q...	QI.K...P.	Y.....S.
<i>Neogale vison</i>	..A....N.	.....	.....Q...	QI.K...P.	Y.....R.
<i>Canis lupus</i> (.)	..S....N.	.....	.....Q...	QI.K...P.	H.....S.
<i>Nyctereutes procyonoides</i> (*)	..S....N.	.....	.....Q...	QI.K...P.	H.....S.
<i>Rhinolophus ferrumequinum</i>	..S....N.	.....	FE.....	RI.K.D.P.	H.....D
<i>Rousettus aegyptiacus</i>	..S....N.	.....	FE...L...	RI.Q...P.	Y....A....
<i>Homo sapiens</i> (*)	..S....SN.	.....	L....Q...	QA.K...P.	H.....
<i>Ptilocolobus tephrosceles</i> (*)	..S....SN.	.....	L....Q...	QA.K...P.	H.....
<i>Macaca mulatta</i> (*)	..S....SN.	.....	L....Q...	QA.K...P.	H.....
<i>Macaca nemestrina</i> (*)	..S....SN.	.....	L....Q...	QA.K...P.	H.....
<i>Choloepus didactylus</i>	..T....N.	.....	.....Q...	QA...Q.P.	HR.....
<i>Anas platyrhynchos</i>	..A....N.	.....	.....	A...T.P.	HT...T...A
<i>Gallus gallus</i>	..A....N.	.....	.....Q...	A...T.P.	H...T...A

	560	570	580	590	600
<i>Odocoileus virginianus</i> (*)	AGQRLIQMLS	L GKSE PWT LA	LESIVGIKTM	DVKPILLNYFE	PLFTWLKEQN
<i>Capreolus Capreolus</i>	.....	.....	.....	.....	.....
<i>Cervus elaphus</i>	.....	.....	.....	.....	.....
<i>Muntiacus muntjak</i>	.....	.....	.....	.....	.....
<i>Oryx dammah</i> (*)	.....R	.....	.....	.....	.....
<i>Nanger dama</i> (*)	.....R	.....N	.....	.....	.....
<i>Bubalus bubalis</i> (*)	.....R	.....N	.....	.....	.....
<i>Bos taurus</i> (*)	.....R	.....N	.....	.....	.....
<i>Balaenoptera musculus</i> (*)	.....H	.....	N...V...	.....	L.....
<i>Tursiops truncatus</i> (*)	.....H	.....S	R...V...	.....	L...G...
<i>Sus scrofa</i> (.)	...K.....	.....	N...V...	.....S...	L...A...
<i>Manis pentadactyla</i> (*)	...K.....	...K.....	RV...T.N	...R.....	L.....
<i>Felis catus</i> (*)	..KK....T	...K.....	HV...E.K	N.T...K...	.....
<i>Mustela putorius</i>	...K.HE...	...R.K...F	RV...A...	...R.....	.....
<i>Neogale vison</i>	...K.HE...	...R.K...F	RV...A...	...R.....	.....
<i>Canis lupus</i> (.)	...K...E.K	...K...Y	IV...A.N	...R.....	.....
<i>Nyctereutes procyonoides</i> (*)	...K...E.K	...K...Y	IV...A.N	...R.....	.....
<i>Rhinolophus ferrumequinum</i>	..EK.H....	V...Q...SV	KDF...S.N	...G...R...	...Y...T...
<i>Rousettus aegyptiacus</i>	..KK.H....	...K.....	...A.T.N	...R.....	.....K
<i>sapiens</i> (*)	...K.FN..R	.....	NV...A.N	N.R.....	.....D
<i>Ptilocolobus tephrosceles</i> (*)	...K..N..K	.....	NV...A.N	N.R.....	.....D
<i>Macaca mulatta</i> (*)	...K..N..K	...E.....	NV...A.N	N.R.....	.....D
<i>Macaca nemestrina</i> (*)	...K..N..K	.....	NV...A.N	N.R.....	.....D
<i>Choloepus didactylus</i>	...K..N..K	S.....A	HV...T.H	.....	.....D
<i>Anas platyrhynchos</i>	..GS.REL.K	...R.K...Q	...LT.E.Y	NAT...H...	...N..QKN
<i>Gallus gallus</i>	..GN.R.L.E	...K...Q	...AT.E.Y	NAT...H...	...N..QKN

	610	620	630	640	650
<i>Odocoileus virginianus</i> (*)	RNSFV GW ST E	WTPYSD Q SI K	VRIS-----	-----	---LKSALG-
<i>Capreolus Capreolus</i>	.....	...XXXXXXXX	XXXXXXXXXXXX	XXX Y EWNDNE	MYL F R..SVAY
<i>Cervus elaphus</i>	K.....	.....	...LKSALG	KNAYEWNDNE	LYL F R..SVAY
<i>Muntiacus muntjak</i>	.....	.....	...LKSALG	KNAYEWNDNE	MYL F R..SVAY
<i>Oryx dammah</i> (*)	.....	.....	...LKSGLG	KNAYEWNDNE	MYL F R..SVAY
<i>Nanger dama</i> (*)	.....	.....	...LKSALG	KNAYEWNDNE	MYL F R..SVAY
<i>Bubalus bubalis</i> (*)	.....	.....	...LKAALG	ENAYEWNDNE	MYL F R..SVAY
<i>Bos taurus</i> (*)	.....	.....	...LKSALG	ENAYEWNDNE	MYL F Q..SVAY
<i>Balaenoptera musculus</i> (*)	...S.....D	.....	...LKSALG	EKAYEWNDNE	MYL F R..SVAY
<i>Tursiops truncatus</i> (*)	.....R.D	.....N....	...LKSALG	EKAYEWNDNE	MYL F R..SVAY
<i>Sus scrofa</i> (.)	G..S...N.D	...A.....	...LKSALG	KEAYEWNDNE	MYL F R..SIAY
<i>Manis pentadactyla</i> (*)	K.....N.D	.S..AA....	...LKSALG	EKAYEWNDSE	MYL F R..SVAY
<i>Felis catus</i> (*)	.....N.D	.R..A.....	...LKSALG	DEAYEWNDNE	MYL F R..SVAY
<i>Mustela putorius</i>	.....N.D	.S..A.....	...LKSALG	EKAYEWNDNE	MY FF Q..SIAY
<i>Neogale vison</i>	.....N.D	.S..A.....	...LKSALG	EKAYEWNDNE	MY FF Q..SIAY
<i>Canis lupus</i> (.)	.....N.D	.S..A.....	...LKSALG	EKAYEWNNNE	MYL F R..SIAY
<i>Nyctereutes procyonoides</i> (*)	.....N.D	.S..A.....	...LKSALG	EKAYEWNNNE	MYL F R..SIAY
<i>Rhinolophus ferrumequinum</i>	.K.....N.D	.S..A.....	...LKSALG	EKAYEWNNNE	MYL F R..SVAY
<i>Rousettus aegyptiacus</i>	.....D	.S...G....	...LKAALG	EKAYEWNDNE	MYL F ..SIAY
<i>sapiens</i> (*)	K.....D	.S..A.....	...LKSALG	DKAYEWNDNE	MYL F R..SVAY
<i>Ptilocolobus tephrosceles</i> (*)	K.....D	.S..A.....	...LKSALG	DKAYEWNDNE	MYL F R..SVAY
<i>Macaca mulatta</i> (*)	K.....D	.S..A.....	...LKSALG	DKAYEWNDNE	MYL F R..SVAY
<i>Macaca nemestrina</i> (*)	K.....D	.S..A.....	...LKSALG	DKAYEWNDNE	MYL F R..SVAY
<i>Choloepus didactylus</i>	..VP.....D	GS.DA..-..	...LKSALG	DKAYEWNDNE	MYL F R..SVAY
<i>Anas platyrhynchos</i>	SGRYI..N.D	...ENA...	...LKAAG-	-QTYEWNKSE	LFL F ..TIAY
<i>Gallus gallus</i>	SGRSI..N.D	.....NA..	...LKAALG	DDAYVWDASE	LFL F ..SIAY

	660	670	680	690	700
<i>Odocoileus virginianus</i> (*)	-----	-----	---KNADANC	PFVWCVPPVS	HLVAIVIRSA
<i>Capreolus Capreolus</i>	AMRKYFLGER	NETIPFGEEN	VWVSDKKPRI	S.KFF.TS.N	NVSD..P.TE
<i>Cervus elaphus</i>	AMRKYFLKKR	NETIPFGEEN	VWVSDKKPRI	S.KFF.TSPN	NVSD.IP.TE
<i>Muntiacus muntjak</i>	AMRKYFLKKR	NETIPFGEEN	VWVSDKKPRI	S.KFF.TSPN	NVSD.IP.TE
<i>Oryx dammah</i> (*)	AMRKYFFKDR	NETIPFGEEN	VWVSDKKPRI	S.KFF.TSPN	NVSD.IP.TE
<i>Nanger dama</i> (*)	AMRRYFFEAS	NETIPFGAEN	VWVSDKKPRI	S.KFF.TSPN	NVSD.IP.TE
<i>Bubalus bubalis</i> (*)	AMRKYFSEAR	NETVLFGEDN	VWVSDKKPRI	S.KFF.TSPN	NVSD.IP.TE
<i>Bos taurus</i> (*)	AMRKYFSEAR	NETVLFGEDN	VWVSDKKPRI	S.KFF.TSPN	NVSD.IP.TE
<i>Balaenoptera musculus</i> (*)	AMREYFSKVR	NETIPFGEKD	VWVSDLKPRI	S.NFF.TTPK	NVSD.IS.TE
<i>Tursiops truncatus</i> (*)	AMREYFSKVR	NKTIPFGEKD	VWVSDLKPRI	S.NFF.TSPK	NMSD.IP.TE
<i>Sus scrofa</i> (.)	AMRNYFSSAK	NETIPFGAED	VWVSDLKPRI	S.NFF.TSPA	NMSD.IP..D
<i>Manis pentadactyla</i> (*)	AMREYFSKFK	KQTIPFEES	VRVSDLKPRV	S.IFF.TLPK	NVS.VIP.AE
<i>Felis catus</i> (*)	AMREYFSKVK	NQTIPFVEDN	VWVS.LKPRI	S.NFF.TASK	NVSDVIP..E
<i>Mustela putorius</i>	AMREYFSKVK	NQTIPFVGKD	VRVSDLKPRI	S.NFI.TSPE	NMSD.IP.AD
<i>Neogale vison</i>	AMREYFSKVK	KQTIPFVDKD	VRVSDLKPRI	S.NFI.TSPE	NMSD.IP.AD
<i>Canis lupus</i> (.)	AMRQYFSEVK	NQTIPFVEDN	VWVSDLKPRI	S.NFS.TSPG	NVSD.IP.TE
<i>Nyctereutes procyonoides</i> (*)	AMRQYFSEVK	NQTIPFVEDN	VWVSDLKPRI	S.NFF.TSPG	NVSD.IP.TE
<i>Rhinolophus ferrumequinum</i>	AMREYFLKTK	NQTILFGEED	VWVS.LKPRI	S.NFY.TSPR	N.SD.IP.PE
<i>Rousettus aegyptiacus</i>	SLREYFLKVK	NLTIPFGEED	VWVSDLKPRI	S.NFF.TSPQ	NVSEFIP.TE
<i>Homo sapiens</i> (*)	AMRQYFLKVK	NQMILFGEED	VRVA.LKPRI	S.NFF.TAPK	NVSD.IP.TE
<i>Ptilocolobus tephrosceles</i> (*)	AMRKYFLEIK	HQTILFGEED	VRVADLKPRI	S.NFY.TAPK	NVSD.IP.TE
<i>Macaca mulatta</i> (*)	AMRTYFLEIK	HQTILFGEED	VRVADLKPRI	S.NFY.TAPK	NVSD.IP.TE
<i>Macaca nemestrina</i> (*)	AMRTYFLEIK	HQTILFGEED	VRVADLKPRI	S.NFY.TAPK	NVSD.IP.TE
<i>Choloepus didactylus</i>	AMREYFLKVK	NQTILFGEED	VQVSEELKPRI	S.IFV.SAPN	NTSD.IP.TE
<i>Anas platyrhynchos</i>	AMRTYFAQ-K	QQLIDFEATD	VHVSEETQRV	S.YIT.SMPG	NASN..PKAD
<i>Gallus gallus</i>	AMRKYFAKEK	EQNVDFAQVT	IHVGEETQRV	S.YLT.SMPG	NVSD..P.AD

	710	720	730	740	750

<i>Odocoileus virginianus</i> (*)	VT				V
<i>Capreolus Capreolus</i>	.EEAIRLSRG	RINDAFQLDD	NSLEFLGIQP	TLGPPYEPPV	TIWLIIFGV.
<i>Cervus elaphus</i>	.ENAIRLSRY	RINDAFQLDD	NSLEFLGIQP	TLGPPYKPPV	TIWLIIFGV.
<i>Muntiacus muntjak</i>	.ENAIRLSRD	RINDAFQLDD	NSLEFLGIQP	TLGPPYEPPV	TIWLIIFGV.
<i>Oryx dammah</i> (*)	.ENAIRLSRD	RINDAFQLDD	NSLEFLGIQP	TLGPPYEPPV	TIWLIIFGV.
<i>Nanger dama</i> (*)	.ENAIRLSRD	RINDAFQLDD	NSLEFLGIQP	TLGPPYEPPV	TIWLIIFGV.
<i>Bubalus bubalis</i> (*)	.ENAIRLFRG	RINDVFQLDD	NSLEFLGIQP	TLRPPYEPPV	TIWLIIFGV.
<i>Bos taurus</i> (*)	.ENAIRLSRD	RFNDVFQLDD	NSLEFLGIQP	TLGPPYEPPV	TIWLIIFGV.
<i>Balaenoptera musculus</i> (*)	.EEAIRMSRG	RINDAFRLDD	NSLEFLGIQP	TLGPPYEPPV	TIWLIIFGA.
<i>Tursiops truncatus</i> (*)	.EEAIRMSRG	RINDAFRLDD	SSLEFLGVQP	TLAPPYEPPV	TVWLIIFGV.
<i>Sus scrofa</i> (.)	.EKAISMSRS	RINDAFRLDD	NTLEFLGIQP	TLGPPDEPPV	TVWLIIFGV.
<i>Manis pentadactyla</i> (*)	.EEAIRMSRS	RINDVFRLDD	NSLEFLGIQP	TLEPPYQPPV	TIWLIVFGV.
<i>Felis catus</i> (*)	.EEAIRMSRS	RINDAFRLDD	NSLEFLGIQP	TLSPPYQPPV	TIWLIVFGV.
<i>Mustela putorius</i>	.EEAIRKSRG	RINDAFRLDD	NSLEFLGIQP	TLEPPYQPPV	TIWLIVFGV.
<i>Neogale vison</i>	.EEAIRKSRG	RINDAFRLDD	NSLEFLGIQP	TLEPPYQPPV	TIWLIVFGV.
<i>Canis lupus</i> (.)	.EEAIRMYRS	RINDVFRLDD	NSLEFLGIQP	TPGPPYEPPV	TIWLIVFGV.
<i>Nyctereutes procyonoides</i> (*)	.EEAIRMYRS	RINDVFRLDD	NSLEFLGIQP	TLGPPYEPPV	TIWLIVFGV.
<i>Rhinolophus ferrumequinum</i>	.EGAIRMSRS	RINDAFRLDD	NSLEFLGIQP	TLGPPYQPPV	TIWLIVFGV.
<i>Rousettus aegyptiacus</i>	.EGAIRMSRS	RINDAFRLDD	DTLEFLGIEP	TLGTPYQPPV	TIWLIVFGV.
<i>Homo sapiens</i> (*)	.EKAIRMSRS	RINDAFRLND	NSLEFLGIQP	TLGPPNQPPV	SIWLIVFGV.
<i>Ptilocolobus tephrosceles</i> (*)	.EEAIRLSRS	RINDAFRLND	DSLEFLGIQP	TLAPPYQPPV	TIWLIVFGV.
<i>Macaca mulatta</i> (*)	.EEAIRISRS	RINDAFRLND	NSLEFLGIQT	TLAPPYQSPV	TTWLIVFGV.
<i>Macaca nemestrina</i> (*)	.EEAIRISRS	RINDAFRLND	NSLEFLGIQT	TLAPPYQSPV	TTWLIVFGV.
<i>Choloepus didactylus</i>	.EKAISMSRG	RINDAFRLDD	NTLEFVGIYP	TLAPPYEPPV	VIWLVVFGVI
<i>Anas platyrhynchos</i>	.ESAISMSRG	RINEAFGLDD	DTLEFVGIIIP	TLAAPYEPPV	TIWLIIFGV.
<i>Gallus gallus</i>	.EKAIRMSRG	RISEAFRLDD	NTLEFDGIVP	TLATPYKPPV	TIWLILFGV.

	760	770	780	790	800
<i>Odocoileus virginianus</i> (*)	SQCCVQATLV	LLNPGPK---	-----VPEE-	-----	-----
<i>Capreolus Capreolus</i>	MGVV.LGIV.	.IFT.IRDRR	KKNQASS..N	PYG-----	SVDLNK--GE
<i>Cervus elaphus</i>	MGVV.IGIV.	.IFT.IRDRR	KKNQASS..N	PYG-----	SVDLNK--GE
<i>Muntiacus muntjak</i>	MGVV.IGIV.	.IFT.IRDRR	KKNQVSS..N	PYG-----	SVDLNK--GE
<i>Oryx dammah</i> (*)	MGVV.IGIVG	.IFT.IRDQR	KKNQASS..N	PYG-----	SVDLNK--GE
<i>Nanger dama</i> (*)	MGVV.IGIV.	.IFT.IQDRR	KHDNDGLQND	ENLRVQQQAV	KVDIPR--NS
<i>Bubalus bubalis</i> (*)	MGVV.IGII.	.IFT.IRDRR	KKNQASS..N	PYG-----	SVDLNK--GE
<i>Bos taurus</i> (*)	MGVV.IGIV.	.IFT.IRNRR	KKNQASS..N	PYG-----	SVDLNK--GE
<i>Balaenoptera musculus</i> (*)	MGVV.IGIA.	.IFT.IRDRR	EKSQASS..N	PYI-----	SMDLSK--GE
<i>Tursiops truncatus</i> (*)	MGVV.IGIV.	.IFT.IRDRR	KKNQASS..N	PYG-----	SVGLSK--GE
<i>Sus scrofa</i> (.)	MGLV.VGIV.	.IFT.IRDRR	KKKQASS..N	PYG-----	SMDLSK--GE
<i>Manis pentadactyla</i> (*)	MGVI.VGIV.	.IFT.IRDRK	KKNQARS.QN	PYA-----	SVDLSK--GE
<i>Felis catus</i> (*)	MGVV.VGIVL	.IVS.IRNRR	KNNQARS..N	PYA-----	SVDLSK--GE
<i>Mustela putorius</i>	MGVV.VGIFL	.IFS.IRNRR	KNNQARS..N	PYA-----	SVDLSK--GE
<i>Neogale vison</i>	MGVV.VGIFL	.IFS.IRNRR	KNNQARS..N	PYA-----	SVDLSK--GE
<i>Canis lupus</i> (.)	MGVV.VGIVL	.IFS.IRNRR	KNDQARG..N	PYA-----	SVDLSK--GE
<i>Nyctereutes procyonoides</i> (*)	MGVV.VGIVL	.IFS.IRNRR	KNDQARG..N	PYA-----	SVDLSK--GE
<i>Rhinolophus ferrumequinum</i>	MAVV.VGIV.	.IIT.IRDRR	KKDQARS..N	PYS-----	SVDLSK--GE
<i>Rousettus aegyptiacus</i>	MGLV.VGIVL	.IFV.IRDRR	KKNQERS..N	PYS-----	SVDLSK--GE
<i>Homo sapiens</i> (*)	MGVI.VGIVI	.IFT.IRDRK	KKNKARSG.N	PYA-----	SIDISK--GE
<i>Ptilocolobus tephrosceles</i> (*)	MGVI.AG.V.	.IFT.IRDRK	KKNQARS..N	PYA-----	SIDISK--GE
<i>Macaca mulatta</i> (*)	MGVI.AGIV.	.IFT.IRDRK	KKNQARS..N	PYA-----	SIDINK--GE
<i>Macaca nemestrina</i> (*)	MGVI.AGIV.	.IFT.IRDRK	KKNQARS..N	PYA-----	SIDINK--GE
<i>Choloepus didactylus</i>	MSVI.IGIVL	.IFT.IRERK	KNRQASGQ.N	PYA-----	SVDLSK--GE
<i>Anas platyrhynchos</i>	ISLV.IGVI.	.IVS.QDRK	KKAKGRER.A	ESN-----C	EVNPYDDDGR
<i>Gallus gallus</i>	MSLI.IGVI.	.IIT.QDRK	KKARGRAN.A	GSN-----C	EVNPYDEDGR

Odocoileus virginianus (*)
Capreolus Capreolus
Cervus elaphus
Muntiacus muntjak
Oryx dammah (*)
Nanger dama (*)
Bubalus bubalis (*)
Bos taurus (*)
Balaenoptera musculus (*)
Tursiops truncatus (*)
Sus scrofa (.)
Manis pentadactyla (*)
Felis catus (*)
Mustela putorius
Neogale vison
Canis lupus (.)
Nyctereutes procyonoides (*)
Rhinolophus ferrumequinum
Rousettus aegyptiacus *Homo sapiens* (*)
Ptilocolobus tephrosceles (*)
Macaca mulatta (*)
Macaca nemestrina (*)
Choloepus didactylus
Anas platyrhynchos
Gallus gallus

.....|.....||
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 NNSG**FQNTDD** VQTSL
 NNSG**FQNTDD** VQTSL
 NNSG**FQNTDD** VQTSL
 NNSG**FQNTDD** VQTSL
 LKATVP**FSNS** PE**KLK**
 NNSG**FQNTDD** VQTSL
 NNSG**FQNTDD** VQTSL
 NNSG**FQNSGD** V**HTSF**
 NN**PGFQNSDD** VQT**SE**
 SNSG**FQNGDD** IQT**SE**
 NN**PGFQNVDD** VQT**SE**
 NN**PGFQ****HADD** VQT**SE**
 NN**PGFQNVDD** VQT**SE**
 NN**PGFQNVDD** VQT**SE**
 NN**PGFQSGDD** VQT**SE**
 NN**PGFQNVDD** AQT**SE**
 NN**PGFQNGDD** VQT**SE**
 NNAG**FQNNDD** VQT**SE**
 NN**PGFQNTDD** VQT**SE**
 NN**PGFQNTDD** VQT**SE**
 NN**PGFQNTDD** VQT**SE**
 NN**PGFQNSDD** IQT**SE**
 SN**KGFELSDE** TQT**SE**
 SN**KGF****EQSEE** TQT**SE**

Figure S1. Multiple sequence alignment of the full-length ACE2 protein sequences for the species characterized for the species characterized in [7] and additional deer species included from GenBank (GCA_000751575.1, XP_037678579.1, XP_012949915.3, QEQ50331.1, KAB0345583.1, XP_043752042.1, XP_036696353.1). Alignments were performed using ClustalW Multiple Alignment in BioEdit version 7.2.5. The names of species with (*) correspond to those with high or moderate susceptibility to SARS-CoV-2 while (.) correspond to species with low susceptibility to SARS-CoV-2. The positions highlighted in red boxes are considered as known binding residues and predictions of SARS-CoV-2 S-binding propensity [7]. Positions K31, E35, N53, M82, N90, N323 and K354 (this last two shifted one amino acid from [7]) are reported as binding hot spots residues. The high variability in the aligned sequences of ACE2 from position 600 is delimited with a green line.