

<i>Homo sapiens</i> ADIA	10	20	30	40	50	60
<i>Homo sapiens</i> ADIA						
<i>Papio hamadryas</i> ADIA						
<i>Mus musculus</i> Adia						
<i>Rattus norvegicus</i> Adia						
<i>Cavia porcellus</i> ADIA						
<i>Ochotona princeps</i> ADIA						
<i>Bos taurus</i> ADIA						
<i>Equus caballus</i> ADIA						
<i>Canis lupus familiaris</i> ADIA						
<i>Felis catus</i> ADIA						
<i>Myotis lucifugus</i> ADIA						
<i>Dasyopus novemcinctus</i> ADIA						
<i>Loxodonta africana</i> ADIA						
<i>Homo sapiens</i> ADIB						
<i>Pan troglodytes</i> ADIB						
<i>Pongo abelii</i> ADIB						
<i>Nomascus leucogenys</i> ADIB						
<i>Callithrix jacchus</i> ADIB						
<i>Otolemur garnettii</i> ADIB						
<i>Mus musculus</i> Adib						
<i>Rattus norvegicus</i> Adib						
<i>Cavia porcellus</i> ADIB						
<i>Oryctolagus cuniculus</i> ADIB						
<i>Bos taurus</i> ADIB						
<i>Equus caballus</i> ADIB						
<i>Canis lupus familiaris</i> ADIB						
<i>Myotis lucifugus</i> ADIB						
<i>Loxodonta africana</i> ADIB						
<i>Homo sapiens</i> ADIC						
<i>Macaca mulatta</i> ADIC						
<i>Papio hamadryas</i> ADIC						
<i>Callithrix jacchus</i> ADIC						
<i>Mus musculus</i> Adic						
<i>Rattus norvegicus</i> Adic						
<i>Cavia porcellus</i> ADIC						
<i>Oryctolagus cuniculus</i> ADIC						
<i>Equus caballus</i> ADIC						
<i>Canis lupus familiaris</i> ADIC						
<i>Myotis lucifugus</i> ADIC						
<i>Loxodonta africana</i> ADIC						
<i>Homo sapiens</i> ADID						
<i>Pan troglodytes</i> ADID						
<i>Pongo abelii</i> ADID						
<i>Nomascus leucogenys</i> ADID						
<i>Macaca mulatta</i> ADID						
<i>Otolemur garnettii</i> ADID						
<i>Mus musculus</i> Adid						
<i>Rattus norvegicus</i> Adid						
<i>Cavia porcellus</i> ADID						
<i>Oryctolagus cuniculus</i> ADID						
<i>Bos taurus</i> ADID						
<i>Equus caballus</i> ADID	1					MG 2
<i>Canis lupus familiaris</i> ADID						
<i>Felis catus</i> ADID						
<i>Myotis lucifugus</i> ADID						
<i>Dasyopus novemcinctus</i> ADID						
<i>Loxodonta africana</i> ADID						
<i>Homo sapiens</i> ADIE						
<i>Pan troglodytes</i> ADIE						
<i>Pongo abelii</i> ADIE						
<i>Papio hamadryas</i> ADIE						
<i>Callithrix jacchus</i> ADIE						
<i>Otolemur garnettii</i> ADIE						
<i>Mus musculus</i> Adie						
<i>Rattus norvegicus</i> Adie						
<i>Homo sapiens</i> ADIF1						
<i>Homo sapiens</i> ADIF2						
<i>Pan troglodytes</i> ADIF1						
<i>Pongo abelii</i> ADIF1						
<i>Nomascus leucogenys</i> ADIF1						
<i>Macaca mulatta</i> ADIF1						
<i>Papio hamadryas</i> ADIF1						

<i>Microcebus murinus</i> ADIF1	-	-----	-
<i>Otolemur garnettii</i> ADIF1	-	-----	-
<i>Mus musculus</i> Adif1	-	-----	-
<i>Rattus norvegicus</i> Adif1	-	-----	-
<i>Cavia porcellus</i> ADIF1	-	-----	-
<i>Oryctolagus cuniculus</i> ADIF1	-	-----	-
<i>Ochotona princeps</i> ADIF1	-	-----	-
<i>Bos taurus</i> ADIF1	-	-----	-
<i>Equus caballus</i> ADIF1	-	-----	-
<i>Canis lupus familiaris</i> ADIF1	-	-----	-
<i>Felis catus</i> ADIF1	-	-----	-
<i>Dasyopus novemcinctus</i> ADIF1	-	-----	-
<i>Loxodonta africana</i> ADIF1	-	-----	-
<i>Homo sapiens</i> ADIG	-	-----	-
<i>Pan troglodytes</i> ADIG	-	-----	-
<i>Pongo abelii</i> ADIG	-	-----	-
<i>Callithrix jacchus</i> ADIG	-	-----	-
<i>Otolemur garnettii</i> ADIG	-	-----	-
<i>Mus musculus</i> Adig	-	-----	-
<i>Rattus norvegicus</i> Adig	-	-----	-
<i>Cavia porcellus</i> ADIG	-	-----	-
<i>Oryctolagus cuniculus</i> ADIG	-	-----	-
<i>Tursiops truncatus</i> ADIG	-	-----	-
<i>Bos taurus</i> ADIG	-	-----	-
<i>Equus caballus</i> ADIG	-	-----	-
<i>Canis lupus familiaris</i> ADIG	-	-----	-
<i>Myotis lucifugus</i> ADIG	-	-----	-
<i>Homo sapiens</i> ADIH	-	-----	-
<i>Pan troglodytes</i> ADIH	-	-----	-
<i>Pongo abelii</i> ADIH	-	-----	-
<i>Nomascus leucogenys</i> ADIH	-	-----	-
<i>Macaca mulatta</i> ADIH	-	-----	-
<i>Papio hamadryas</i> ADIH	-	-----	-
<i>Mus musculus</i> Adih	-	-----	-
<i>Rattus norvegicus</i> Adih	-	-----	-
<i>Dipodomys ordii</i> ADIH	-	-----	-
<i>Cavia porcellus</i> ADIH	-	-----	-
<i>Bos taurus</i> ADIH	-	-----	-
<i>Equus caballus</i> ADIH	-	-----	-
<i>Canis lupus familiaris</i> ADIH	-	-----	-
<i>Pteropus vampyrus</i> ADIH	-	-----	-
<i>Loxodonta africana</i> ADIH	-	-----	-
<i>Homo sapiens</i> ADII	-	-----	-
<i>Pongo abelii</i> ADII	-	-----	-
<i>Macaca mulatta</i> ADII	-	-----	-
<i>Mus musculus</i> Adii	-	-----	-
<i>Rattus norvegicus</i> Adii	-	-----	-
<i>Bos taurus</i> ADII	-	-----	-
<i>Canis lupus familiaris</i> ADII	-	-----	-
<i>Dasyopus novemcinctus</i> ADII	-	-----	-
<i>Homo sapiens</i> ADIJ	-	-----	-
<i>Pan troglodytes</i> ADIJ	-	-----	-
<i>Papio hamadryas</i> ADIJ	-	-----	-
<i>Mus musculus</i> Adij	-	-----	-
<i>Rattus norvegicus</i> Adij	-	-----	-
<i>Oryctolagus cuniculus</i> ADIJ	-	-----	-
<i>Bos taurus</i> ADIJ	-	-----	-
<i>Canis lupus familiaris</i> ADIJ	-	-----	-
<i>Loxodonta africana</i> ADIJ	-	-----	-
<i>Homo sapiens</i> ADIK	-	-----	-
<i>Pan troglodytes</i> ADIK	-	-----	-
<i>Gorilla gorilla</i> ADIK	-	-----	-
<i>Papio hamadryas</i> ADIK	-	-----	-
<i>Callithrix jacchus</i> ADIK	-	-----	-
<i>Rattus norvegicus</i> Adik	-	-----	-
<i>Cavia porcellus</i> ADIK	-	-----	-
<i>Equus caballus</i> ADIK	-	-----	-
<i>Canis lupus familiaris</i> ADIK	-	-----	-
<i>Dasyopus novemcinctus</i> ADIK	-	-----	-
<i>Loxodonta africana</i> ADIK	-	-----	-
<i>Mus musculus</i> Adil	-	-----	-
<i>Rattus norvegicus</i> Adil	-	-----	-
<i>Homo sapiens</i> ADIM	1	MLSVPSWL ¹ CMF ¹ SSHFN ¹ RVPRCDI ¹ YEF ¹ RQLGT ¹ VHTN ¹ RSCLW ¹ CGK ¹ MMNGGCS ¹ AWGG ¹ LLSL	60
<i>Pan troglodytes</i> ADIM	1	MLSVPSWL ¹ CMF ¹ SSHFN ¹ RVPRCDI ¹ YEF ¹ RQLGT ¹ VHTN ¹ RSCLW ¹ CGK ¹ MMNGGCS ¹ AWGG ¹ LLSL	60

<i>Pongo abelii</i> ADIM	1	-----MMNGGCSAWGGLLSL	16
<i>Nomascus leucogenys</i> ADIM	1	MLSVPSWLCMFSSHFNRNVPRCDIYEFRLQGTVHTNRSCLWCGKMMNGGCSAWGGLLSL	60
<i>Papio hamadryas</i> ADIM	1	MLSVPSWLCMFSSHFNRNVPRCDIYEFRLQGTVHTNRSCLWCGKMMNGGCSAWGGLLSL	60
<i>Callithrix jacchus</i> ADIM	1	-----MFSSHFNRNVPRCDIYESRQLESVHTDRSCLWCGKVMNGGCSARGGLLSL	51
<i>Mus musculus</i> Adim	-	-----	-
<i>Rattus norvegicus</i> Adim	1	-----MGAGLSGVGGSCCHS	15
<i>Cavia porcellus</i> ADIM	1	-----MGAVLPG-EEGCCHS	14
<i>Bos taurus</i> ADIM	-	-----	-
<i>Equus caballus</i> ADIM	-	-----	-
<i>Canis lupus familiaris</i> ADIM	1	-----MNGGRPWWGGLLPS	15
<i>Homo sapiens</i> ADIN	-	-----	-
<i>Pan troglodytes</i> ADIN	-	-----	-
<i>Pongo abelii</i> ADIN	-	-----	-
<i>Nomascus leucogenys</i> ADIN	-	-----	-
<i>Macaca mulatta</i> ADIN	-	-----	-
<i>Callithrix jacchus</i> ADIN	-	-----	-
<i>Mus musculus</i> Adin	-	-----	-
<i>Cavia porcellus</i> ADIN	-	-----	-
<i>Tursiops truncatus</i> ADIN	-	-----	-
<i>Canis lupus familiaris</i> ADIN	-	-----	-
<i>Dasyopus novemcinctus</i> ADIN	-	-----	-
<i>Loxodonta africana</i> ADIN	-	-----	-
<i>Homo sapiens</i> ADIO	-	-----	-
<i>Pan troglodytes</i> ADIO	-	-----	-
<i>Macaca mulatta</i> ADIO	-	-----	-
<i>Bos taurus</i> ADIO	-	-----	-
<i>Myotis lucifugus</i> ADIO	-	-----	-
<i>Homo sapiens</i> ADIP	1	-----MCVECVHVWGLHVCECVMCVCARECVVSACMHAWVCE	38
<i>Otolemur garnettii</i> ADIP	-	-----	-
<i>Mus musculus</i> Adip	-	-----	-
<i>Cavia porcellus</i> ADIP	-	-----	-
<i>Bos taurus</i> ADIP	-	-----	-
<i>Equus caballus</i> ADIP	-	-----	-
<i>Loxodonta africana</i> ADIP	-	-----	-
<i>Homo sapiens</i> ADIQ	-	-----	-
<i>Pan troglodytes</i> ADIQ	-	-----	-
<i>Pongo abelii</i> ADIQ	-	-----	-
<i>Nomascus leucogenys</i> ADIQ	-	-----	-
<i>Macaca mulatta</i> ADIQ	-	-----	-
<i>Mus musculus</i> Adiq	-	-----	-
<i>Rattus norvegicus</i> Adiq	-	-----	-
<i>Homo sapiens</i> ADIR	-	-----	-
<i>Pan troglodytes</i> ADIR	-	-----	-
<i>Pongo abelii</i> ADIR	-	-----	-
<i>Nomascus leucogenys</i> ADIR	-	-----	-
<i>Macaca mulatta</i> ADIR	-	-----	-
<i>Papio hamadryas</i> ADIR	-	-----	-
<i>Callithrix jacchus</i> ADIR	-	-----	-
<i>Tarsius syrichta</i> ADIR	-	-----	-
<i>Otolemur garnettii</i> ADIR	-	-----	-
<i>Tupaia belangeri</i> ADIR	-	-----	-
<i>Mus musculus</i> Adir	-	-----	-
<i>Rattus norvegicus</i> Adir	-	-----	-
<i>Cavia porcellus</i> ADIR	-	-----	-
<i>Oryctolagus cuniculus</i> ADIR	-	-----	-
<i>Tursiops truncatus</i> ADIR	-	-----	-
<i>Bos taurus</i> ADIR	-	-----	-
<i>Equus caballus</i> ADIR	-	-----	-
<i>Canis lupus familiaris</i> ADIR	-	-----	-
<i>Myotis lucifugus</i> ADIR	-	-----	-
<i>Pteropus vampyrus</i> ADIR	-	-----	-
<i>Erinaceus europaeus</i> ADIR	-	-----	-
<i>Dasyopus novemcinctus</i> ADIR	-	-----	-
<i>Choloepus hoffmanni</i> ADIR	-	-----	-
<i>Loxodonta africana</i> ADIR	-	-----	-

<i>Homo sapiens</i> ADIA	1	-----M	2
		70 80 90 100 110 120	
<i>Homo sapiens</i> ADIA	1	-----MM	2
<i>Papio hamadryas</i> ADIA	1	-----MM	2
<i>Mus musculus</i> Adia	1	-----MDGLMTDGSYHGSNPPCVLTPQEAPEAEL	29
<i>Rattus norvegicus</i> Adia	-	-----	-
<i>Cavia porcellus</i> ADIA	-	-----	-
<i>Ochotona princeps</i> ADIA	1	-----MA	2
<i>Bos taurus</i> ADIA	-	-----	-
<i>Equus caballus</i> ADIA	-	-----	-
<i>Canis lupus familiaris</i> ADIA	-	-----	-
<i>Felis catus</i> ADIA	-	-----	-
<i>Myotis lucifugus</i> ADIA	-	-----	-
<i>Dasyopus novemcinctus</i> ADIA	-	-----	-
<i>Loxodonta africana</i> ADIA	-	-----	-
<i>Homo sapiens</i> ADIB	-	-----	-
<i>Pan troglodytes</i> ADIB	-	-----	-
<i>Pongo abelii</i> ADIB	-	-----	-
<i>Nomascus leucogenys</i> ADIB	-	-----	-
<i>Callithrix jacchus</i> ADIB	-	-----	-
<i>Otolemur garnettii</i> ADIB	-	-----	-
<i>Mus musculus</i> Adib	1	-----MKGYGRGRGNEEREGEREFSTSSSISPPPLLR	30
<i>Rattus norvegicus</i> Adib	1	-----MGNEEREGERELSTSSSISPPFLLR	23
<i>Cavia porcellus</i> ADIB	1	-----MWQGPPIITLVGAQAAGGGVQGLCGARPGAVGRKEGRDWRLTPHSASSFLPK	51
<i>Oryctolagus cuniculus</i> ADIB	1	-----MPASEAWHQGRLGWRVPRGLGWGPWGGSEDEQGTGRGAPGGLSPLCPYHSLPS	53
<i>Bos taurus</i> ADIB	-	-----	-
<i>Equus caballus</i> ADIB	1	-----MRGWVVSPALSSSTSFPR	18
<i>Canis lupus familiaris</i> ADIB	-	-----	-
<i>Myotis lucifugus</i> ADIB	-	-----	-
<i>Loxodonta africana</i> ADIB	-	-----	-
<i>Homo sapiens</i> ADIC	-	-----	-
<i>Macaca mulatta</i> ADIC	-	-----	-
<i>Papio hamadryas</i> ADIC	-	-----	-
<i>Callithrix jacchus</i> ADIC	-	-----	-
<i>Mus musculus</i> Adic	-	-----	-
<i>Rattus norvegicus</i> Adic	1	-----MPGVFVCLCRNI	12
<i>Cavia porcellus</i> ADIC	-	-----	-
<i>Oryctolagus cuniculus</i> ADIC	1	-----MRLCPVHACLVRVLRFRWACVVRGGGEPERRPSSHLCLEHRRHH	42
<i>Equus caballus</i> ADIC	1	-----MSSSGGIQVRKLGVHERVMSACRGPAPCLHSGI	33
<i>Canis lupus familiaris</i> ADIC	1	-----MGVCACVRSRGPDPCLRSGI	19
<i>Myotis lucifugus</i> ADIC	-	-----	-
<i>Loxodonta africana</i> ADIC	1	-----MSSLPSPTLCLHSAI	15
<i>Homo sapiens</i> ADID	1	-----MDGVLCRSRLGVCVGSVSPWLTVMWIPGLR	31
<i>Pan troglodytes</i> ADID	1	-----MDGVLCRSRLGVCVGSVSPWLTVMWIPGLR	31
<i>Pongo abelii</i> ADID	-	-----	-
<i>Nomascus leucogenys</i> ADID	1	-----MESCVGPNWV-CCVGSVSPWLTVMWIPGLR	30
<i>Macaca mulatta</i> ADID	1	-----MESCVGISWV-CCVGSVSPWLTVMWIPGLR	30
<i>Otolemur garnettii</i> ADID	-	-----	-
<i>Mus musculus</i> Adid	1	-----MTIHLSISGLR	11
<i>Rattus norvegicus</i> Adid	-	-----	-
<i>Cavia porcellus</i> ADID	1	-----MESSFMSVPCTAGLSLGGSLGCSERSASPWLTAHSHIPGLR	42
<i>Oryctolagus cuniculus</i> ADID	1	-----MGHVCIPGLR	10
<i>Bos taurus</i> ADID	-	-----	-
<i>Equus caballus</i> ADID	3	QCVSGCLTRSRRKDYVCVACAYMCVQVCVCMYVVCVWVGCVAWGLLSWLTVMWIPGLR	62
<i>Canis lupus familiaris</i> ADID	1	-----MQIWPGLR	9
<i>Felis catus</i> ADID	-	-----	-
<i>Myotis lucifugus</i> ADID	1	-----MAGLISGLR	9
<i>Dasyopus novemcinctus</i> ADID	-	-----	-
<i>Loxodonta africana</i> ADID	-	-----	-
<i>Homo sapiens</i> ADIE	-	-----	-
<i>Pan troglodytes</i> ADIE	-	-----	-
<i>Pongo abelii</i> ADIE	-	-----	-
<i>Papio hamadryas</i> ADIE	-	-----	-
<i>Callithrix jacchus</i> ADIE	-	-----	-
<i>Otolemur garnettii</i> ADIE	-	-----	-
<i>Mus musculus</i> Adie	-	-----	-
<i>Rattus norvegicus</i> Adie	-	-----	-
<i>Homo sapiens</i> ADIF1	-	-----	-
<i>Homo sapiens</i> ADIF2	-	-----	-
<i>Pan troglodytes</i> ADIF1	-	-----	-
<i>Pongo abelii</i> ADIF1	-	-----	-
<i>Nomascus leucogenys</i> ADIF1	-	-----	-
<i>Macaca mulatta</i> ADIF1	-	-----	-
<i>Papio hamadryas</i> ADIF1	-	-----	-

<i>Microcebus murinus</i> ADIF1	-	-----	-
<i>Otolemur garnettii</i> ADIF1	-	-----	-
<i>Mus musculus</i> Adif1	1	-----MPSNCTCTQGLYILQFLFSLFQLRPCGLT	29
<i>Rattus norvegicus</i> Adif1	1	-----MPLPVSVSLSFQSRPCRLT	18
<i>Cavia porcellus</i> ADIF1	-	-----	-
<i>Oryctolagus cuniculus</i> ADIF1	-	-----	-
<i>Ochotona princeps</i> ADIF1	-	-----	-
<i>Bos taurus</i> ADIF1	-	-----	-
<i>Equus caballus</i> ADIF1	-	-----	-
<i>Canis lupus familiaris</i> ADIF1	-	-----	-
<i>Felis catus</i> ADIF1	-	-----	-
<i>Dasyopus novemcinctus</i> ADIF1	-	-----	-
<i>Loxodonta africana</i> ADIF1	-	-----	-
<i>Homo sapiens</i> ADIG	1	----MKVNSVLHVWVWDEHWSDDLQMHILLFKLIQSCQTTPLP-TQKVHLRLCVSLPEPK	54
<i>Pan troglodytes</i> ADIG	1	----MKVNRVLHVWVWDEHWSDDLQMHILMFKLIQSCQTTPLP-TQKVHLRLCVSLPEPK	54
<i>Pongo abelii</i> ADIG	1	----MKVNRVLHVWVWDEHWSDDLQMHILMFKLIQSCQTTPLP-TQKAHLRPCVSLPEPK	54
<i>Callithrix jacchus</i> ADIG	1	-----MCGKINTELLVFRLIQSCQTTPLL-TQKVHLPCVSLPEPK	40
<i>Otolemur garnettii</i> ADIG	-	-----	-
<i>Mus musculus</i> Adig	1	-----MK-KANARGDCTHAHSSAHPNSIMPKPPFGE-STDVFTSLLEPK	42
<i>Rattus norvegicus</i> Adig	1	-----MGGKANAGGQLSTAHS AHPNSIAPKPPFGE-YTDVCTSLLEPK	43
<i>Cavia porcellus</i> ADIG	-	-----	-
<i>Oryctolagus cuniculus</i> ADIG	-	-----	-
<i>Tursiops truncatus</i> ADIG	1	-----MELLGQTGYLDTHGEVSPGVNFCPCPFSCVMPKTPPKRVHLPCVSLPEPK	52
<i>Bos taurus</i> ADIG	-	-----	-
<i>Equus caballus</i> ADIG	1	-----MHGKVSTGVNYCKCPFLCSIMPKPPPVRVHLPCVSLPEPK	41
<i>Canis lupus familiaris</i> ADIG	1	-----MHGEVSTGVSGCKRLFSCSFMPKLSPERVHLPCVSLPEPK	41
<i>Myotis lucifugus</i> ADIG	-	-----	-
<i>Homo sapiens</i> ADIH	-	-----	-
<i>Pan troglodytes</i> ADIH	-	-----	-
<i>Pongo abelii</i> ADIH	-	-----	-
<i>Nomascus leucogenys</i> ADIH	-	-----	-
<i>Macaca mulatta</i> ADIH	-	-----	-
<i>Papio hamadryas</i> ADIH	-	-----	-
<i>Mus musculus</i> Adih	1	-----MLLQVTT	7
<i>Rattus norvegicus</i> Adih	1	-----MQLHPCLLLLLLIPLIFPPMPYWSVVCQHHVHSYLLFCHPQVTT	44
<i>Dipodomys ordii</i> ADIH	-	-----	-
<i>Cavia porcellus</i> ADIH	-	-----	-
<i>Bos taurus</i> ADIH	1	-----MARLTYSQLSCLPQVAT	17
<i>Equus caballus</i> ADIH	-	-----	-
<i>Canis lupus familiaris</i> ADIH	-	-----	-
<i>Pteropus vampyrus</i> ADIH	-	-----	-
<i>Loxodonta africana</i> ADIH	-	-----	-
<i>Homo sapiens</i> ADII	-	-----	-
<i>Pongo abelii</i> ADII	-	-----	-
<i>Macaca mulatta</i> ADII	-	-----	-
<i>Mus musculus</i> Adii	-	-----	-
<i>Rattus norvegicus</i> Adii	-	-----	-
<i>Bos taurus</i> ADII	-	-----	-
<i>Canis lupus familiaris</i> ADII	-	-----	-
<i>Dasyopus novemcinctus</i> ADII	-	-----	-
<i>Homo sapiens</i> ADIJ	-	-----	-
<i>Pan troglodytes</i> ADIJ	-	-----	-
<i>Papio hamadryas</i> ADIJ	-	-----	-
<i>Mus musculus</i> Adij	-	-----	-
<i>Rattus norvegicus</i> Adij	-	-----	-
<i>Oryctolagus cuniculus</i> ADIJ	-	-----	-
<i>Bos taurus</i> ADIJ	-	-----	-
<i>Canis lupus familiaris</i> ADIJ	-	-----	-
<i>Loxodonta africana</i> ADIJ	-	-----	-
<i>Homo sapiens</i> ADIK	-	-----	-
<i>Pan troglodytes</i> ADIK	-	-----	-
<i>Gorilla gorilla</i> ADIK	-	-----	-
<i>Papio hamadryas</i> ADIK	-	-----	-
<i>Callithrix jacchus</i> ADIK	-	-----	-
<i>Rattus norvegicus</i> Adik	-	-----	-
<i>Cavia porcellus</i> ADIK	-	-----	-
<i>Equus caballus</i> ADIK	-	-----	-
<i>Canis lupus familiaris</i> ADIK	-	-----	-
<i>Dasyopus novemcinctus</i> ADIK	-	-----	-
<i>Loxodonta africana</i> ADIK	-	-----	-
<i>Mus musculus</i> Adil	-	-----	-
<i>Rattus norvegicus</i> Adil	-	-----	-
<i>Homo sapiens</i> ADIM	61	WHAYSLIYYTPKYKTPP---LQLSAPVLASAR---GDHAPGAL---LSSQGDSEALLRI	111
<i>Pan troglodytes</i> ADIM	61	WHAYSLIYYTPKYKTPP---LQLSAPVLASAR---GDHAPGAL---LSSQGDSEALLRI	111

<i>Pongo abelii</i> ADIM	17	WHSYSLIYYTPKYKTTTPP---LQLSAPVLASAR---GDHAPGAL---LSSQGDSEALLRI	67
<i>Nomascus leucogenys</i> ADIM	61	WHAYSLLIYYTPKYKTTTPP---LQLSAPVLASAR---GDHAPGAL---LSSQGDSEALLRI	111
<i>Papio hamadryas</i> ADIM	61	WHAYSLLIYYTPKYKTTTPP---LQLSAPVLASAR---GDHAPGAL---LSSQGSSEALLRI	111
<i>Callithrix jacchus</i> ADIM	52	WHAYSLLIYYTPNYKTKLRAASALSSSPGIHPRRPR-SWKEP-----QGGSEALLRI	101
<i>Mus musculus</i> Adim	-	-----	-
<i>Rattus norvegicus</i> Adim	16	GMTAALFITHQKYKTTQPAA-ALISKPGICLRRLRCGCRVPGAYSPhQLPRGDSADLSRA	74
<i>Cavia porcellus</i> ADIM	15	GVSAALFITHQSIKPPSPAA-VLIFSPGICLRRSR-FLKPP-----LSSQGGSVALLKI	66
<i>Bos taurus</i> ADIM	-	-----	-
<i>Equus caballus</i> ADIM	-	-----	-
<i>Canis lupus familiaris</i> ADIM	16	GMPAALFITHQSIKPPSR---LQLASPALAFAREA-PPSSP-----GGSGALLRN	61
<i>Homo sapiens</i> ADIN	-	-----	-
<i>Pan troglodytes</i> ADIN	-	-----	-
<i>Pongo abelii</i> ADIN	-	-----	-
<i>Nomascus leucogenys</i> ADIN	-	-----	-
<i>Macaca mulatta</i> ADIN	-	-----	-
<i>Callithrix jacchus</i> ADIN	-	-----	-
<i>Mus musculus</i> Adin	-	-----	-
<i>Cavia porcellus</i> ADIN	1	-----MSPVLPVSTGA	11
<i>Tursiops truncatus</i> ADIN	-	-----	-
<i>Canis lupus familiaris</i> ADIN	-	-----	-
<i>Dasyopus novemcinctus</i> ADIN	-	-----	-
<i>Loxodonta africana</i> ADIN	-	-----	-
<i>Homo sapiens</i> ADIO	-	-----	-
<i>Pan troglodytes</i> ADIO	-	-----	-
<i>Macaca mulatta</i> ADIO	-	-----	-
<i>Bos taurus</i> ADIO	-	-----	-
<i>Myotis lucifugus</i> ADIO	-	-----	-
<i>Homo sapiens</i> ADIP	39	SDCPPRSCVTAAFPSPGVRLGKHLRFPGCFSPQFSGCFVQLLPNSVPSLCVSPFPPGPRK	98
<i>Otolemur garnettii</i> ADIP	-	-----	-
<i>Mus musculus</i> Adip	-	-----	-
<i>Cavia porcellus</i> ADIP	-	-----	-
<i>Bos taurus</i> ADIP	1	-----MGLFSPWGSSSPHPPCVS-PAGLGGK	25
<i>Equus caballus</i> ADIP	-	-----	-
<i>Loxodonta africana</i> ADIP	1	-----MVIAGLGKRPSFLAASPRSPIPTRPLPHLSPCGVSFPFGHGRK	43
<i>Homo sapiens</i> ADIQ	1	-----MQWLRVRESPGEATGHRVT	19
<i>Pan troglodytes</i> ADIQ	1	-----MQWLRVRESPGEATGHRVT	19
<i>Pongo abelii</i> ADIQ	1	-----MQWLRVRESPGEATGHRVT	19
<i>Nomascus leucogenys</i> ADIQ	1	-----MQWLRVRESPGEATGHRVT	19
<i>Macaca mulatta</i> ADIQ	1	-----MQWLRVRDSPGEATGHRVT	19
<i>Mus musculus</i> Adiq	1	-----MRVI	4
<i>Rattus norvegicus</i> Adiq	1	-----MRVI	4
<i>Homo sapiens</i> ADIR	-	-----	-
<i>Pan troglodytes</i> ADIR	-	-----	-
<i>Pongo abelii</i> ADIR	-	-----	-
<i>Nomascus leucogenys</i> ADIR	-	-----	-
<i>Macaca mulatta</i> ADIR	-	-----	-
<i>Papio hamadryas</i> ADIR	-	-----	-
<i>Callithrix jacchus</i> ADIR	-	-----	-
<i>Tarsius syrichta</i> ADIR	-	-----	-
<i>Otolemur garnettii</i> ADIR	-	-----	-
<i>Tupaia belangeri</i> ADIR	-	-----	-
<i>Mus musculus</i> Adir	-	-----	-
<i>Rattus norvegicus</i> Adir	-	-----	-
<i>Cavia porcellus</i> ADIR	-	-----	-
<i>Oryctolagus cuniculus</i> ADIR	-	-----	-
<i>Tursiops truncatus</i> ADIR	-	-----	-
<i>Bos taurus</i> ADIR	-	-----	-
<i>Equus caballus</i> ADIR	-	-----	-
<i>Canis lupus familiaris</i> ADIR	-	-----	-
<i>Myotis lucifugus</i> ADIR	-	-----	-
<i>Pteropus vampyrus</i> ADIR	-	-----	-
<i>Erinaceus europaeus</i> ADIR	-	-----	-
<i>Dasyopus novemcinctus</i> ADIR	-	-----	-
<i>Choloepus hoffmanni</i> ADIR	-	-----	-
<i>Loxodonta africana</i> ADIR	-	-----	-

<i>Homo sapiens</i> ADIA	3	MKIP-WGSIPV-LMLL-----LLL---GLIDISQAQ-L-----	29
		130 140 150 160 170 180	
<i>Homo sapiens</i> ADIA	3	MKIP-WGSIPV-LMLL-----LLL---GLIDISQAQ-L-----	29
<i>Papio hamadryas</i> ADIA	3	MKIL-WGSIPV-LMLL-----LLL---GLLDVSWAQ-G-----	29
<i>Mus musculus</i> Adia	30	MKTQ-WGEVWT-HLLL-----LLL---GFLHVSWAQ-S-----	56
<i>Rattus norvegicus</i> Adia	1	MKTQ-WSEIIT-PLLL-----LLL---GLLHVSWAQ-S-----	27
<i>Cavia porcellus</i> ADIA	1	MKIP-WGDVSV-LLLL-----LLL---PLLRVSRVQ-S-----	27
<i>Ochotona princeps</i> ADIA	3	MKSP-RGSIPA---LL-----LLL---SLLDASQAQ-S-----	27
<i>Bos taurus</i> ADIA	1	MKTP-RGSIVL---L-----LLL---NLLRVSWAQ-S-----	24
<i>Equus caballus</i> ADIA	1	MKTLTMGGILA-LLPL-----LLL---GPLDVSRQA-S-----	28
<i>Canis lupus familiaris</i> ADIA	1	MKTP-RGGILA-LLLP-----LLL---GLLEVSWAQ-----	26
<i>Felis catus</i> ADIA	1	MKTV-RDGVLASLLLL-----LLLF--LFLLEVSWAQ-S-----	30
<i>Myotis lucifugus</i> ADIA	1	MKTP-RGGILA-LLLP-----LLL---GPLDVSRQA-R-----	27
<i>Dasyopus novemcinctus</i> ADIA	1	MKTL-WGGVLP---L-----LLL---SLPDASCAQ-S-----	24
<i>Loxodonta africana</i> ADIA	1	MKTL-WAGIPV-LLPL-----LLL---SLLGVSWAQ-I-----	27
<i>Homo sapiens</i> ADIB	1	MDVG-PSSPHLGLK-----LLL---LLLPLRGQAN-T-----	30
<i>Pan troglodytes</i> ADIB	1	MDMG-PSSPHLGLK-----LLL---LLLPLRGQAN-T-----	30
<i>Pongo abelii</i> ADIB	1	MDMG-PSSPHLGLK-----LLP---LLLPLRGQAN-T-----	30
<i>Nomascus leucogenys</i> ADIB	1	MDVG-PSSPHLGLK-----LLL---LLLPLRGQAN-T-----	31
<i>Callithrix jacchus</i> ADIB	1	MDVG-HGS--HFGLNL-----LLL---LLLPLRSQAN-T-----	29
<i>Otolemur garnettii</i> ADIB	1	M-V--PNCRPHLQNL-----LLL---LLVPLGGQAS-T-----	28
<i>Mus musculus</i> Adib	31	MVVG-PSCQPPCGLCL-----LLLF--LLALPLRSQAS-A-----	61
<i>Rattus norvegicus</i> Adib	24	MVVG-TSCQPQHGLYL-----LLL---LLALPLRSQAN-A-----	53
<i>Cavia porcellus</i> ADIB	52	MDVG-L---PLGLHL-----LLL---LLAVPLRGQTR-P-----	77
<i>Oryctolagus cuniculus</i> ADIB	54	MDVG-LGSQSPGLLHL-----LLL---LLALPLGSQAS-A-----	83
<i>Bos taurus</i> ADIB	1	MGGG-A--WPLLVLNL-----LLL---LLARPLRGQTE-T-----	28
<i>Equus caballus</i> ADIB	19	MDVG-SSSRPLGLHL-----LLL---LLALPLGGQAS-T-----	48
<i>Canis lupus familiaris</i> ADIB	1	MDTG-PSSWPHLGLNL-----LLL---LLALPLGGQAS-T-----	30
<i>Myotis lucifugus</i> ADIB	1	MDRG-SSIWPLGLNL-----LLL---LLALPLGGLAA-T-----	30
<i>Loxodonta africana</i> ADIB	1	M--G-PGSQPPLSLNL-----LLL---LLTLPLRGQAS-T-----	28
<i>Homo sapiens</i> ADIC	1	MEGP-RG-WLVLCVLA-----ISL---AS-MV--TE-D-----	24
<i>Macaca mulatta</i> ADIC	1	MEGP-QG-WLVVCVLA-----ISL---AS-IV--TQ-N-----	24
<i>Papio hamadryas</i> ADIC	1	MEGP-QG-WLVVCVLA-----ISL---AS-IV--TQ-N-----	24
<i>Callithrix jacchus</i> ADIC	1	MEGS-QG-WLVVCVLA-----ISL---AS-TV--TQ-D-----	24
<i>Mus musculus</i> Adic	1	METS-QG-WLVACVLT-----MTL---VW-TV--AE-D-----	24
<i>Rattus norvegicus</i> Adic	13	METS-QG-WLVACVLA-----VTL---VW-TV--AE-D-----	36
<i>Cavia porcellus</i> ADIC	1	M--TP-RL-WLLVCVLA-----VSL---SS-GV--AE-D-----	23
<i>Oryctolagus cuniculus</i> ADIC	43	METS-T--WLLLCVLA-----TSL---SS-GV--TQ-G-----	65
<i>Equus caballus</i> ADIC	34	MEAP-WG-WLMVGVLA-----VSL---AS-TG--TQ-D-----	57
<i>Canis lupus familiaris</i> ADIC	20	MEAP-WG-WLALCVLA-----TSL---AS-AV--TQ-D-----	43
<i>Myotis lucifugus</i> ADIC	1	MEAP-WG-WLVVGVLA-----MSL---AS-TV--TQ-N-----	24
<i>Loxodonta africana</i> ADIC	16	MEAP-KG-WLVVCVLA-----VSL---AS-TV--TQ-D-----	39
<i>Homo sapiens</i> ADID	32	M--L---LLG--AVL-----LLL---ALP--GHDQ-E--TTTQGP-G-----	57
<i>Pan troglodytes</i> ADID	32	M--L---LLG--AVL-----LLL---ALP--GHDQ-E--TTTQGP-G-----	57
<i>Pongo abelii</i> ADID	1	M--L---LLG--AIL-----LLL---ALP--SHGQ-E--TTTQGP-R-----	26
<i>Nomascus leucogenys</i> ADID	31	M--L---LLG--AVL-----LLL---ALP--SHGQ-D--TTTQGP-G-----	56
<i>Macaca mulatta</i> ADID	31	M--L---LLG--AVL-----LLL---ALP--SHGQ-D--TTTQGP-G-----	55
<i>Otolemur garnettii</i> ADID	1	M--L---LLQ--AVL-----LLL---ALP--SHGQ-D--TSTEGP-G-----	26
<i>Mus musculus</i> Adid	12	M--L---LLQ--ALL-----FLL---ILP--SHAE-DDVTTEEL-A-----	39
<i>Rattus norvegicus</i> Adid	1	M--L---LLQ--ALL-----FLL---ILP--SHEG-I--TATEGP-G-----	26
<i>Cavia porcellus</i> ADID	43	M--L---VLR--AVL-----LLL---ALP--SCAQ-E--TSAAES-E-----	68
<i>Oryctolagus cuniculus</i> ADID	11	M--L---LLQ--AVL-----LLL---ALP--SHGQ-D--STTESP-G-----	36
<i>Bos taurus</i> ADID	1	M--L---LQG--ALL-----LLL---ALP--SHGE-D--NM-EDP-----	24
<i>Equus caballus</i> ADID	63	M--L---LLQ--AVL-----LLL---VLP--SPGE-V--TTTEE-----	86
<i>Canis lupus familiaris</i> ADID	10	M--L---LLR--AVL-----LLL---VLP--AHGQ-D--SVAEGP-G-----	35
<i>Felis catus</i> ADID	1	M--L---LLR--AVL-----LLL---VLP--IRGQ-D--SETEGP-G-----	26
<i>Myotis lucifugus</i> ADID	10	M--L---LLQ--AVL-----LLL---VLP--SRGQ-D--TPTKEP-E-----	35
<i>Dasyopus novemcinctus</i> ADID	1	M--L---LLQ--AVL-----LLL---ALP--SHGQ-D--TTQEEP-G-----	27
<i>Loxodonta africana</i> ADID	1	M--L---LLR--AVL-----LLL---ALP--NNGE-N--LATEGP-G-----	26
<i>Homo sapiens</i> ADIE	1	MR-P---LLV--LLL-----LGL---A---AGS-PPL---D-D-----	21
<i>Pan troglodytes</i> ADIE	1	MR-P---LLV--LLL-----LGL---A---AGS-PPL---D-D-----	21
<i>Pongo abelii</i> ADIE	1	MR-P---LLV--LLL-----LGL---A---AGS-PPL---D-D-----	21
<i>Papio hamadryas</i> ADIE	1	MR-P---LLV--LLL-----LGL---A---AGS-PPL---D-D-----	21
<i>Callithrix jacchus</i> ADIE	1	MR-P---LLV--LLL-----LGL---A---ASS-PPL---E-D-----	21
<i>Otolemur garnettii</i> ADIE	1	MR-L---LLA--LLF-----LGL---A---AGS-PPL---D-D-----	21
<i>Mus musculus</i> Adie	1	MR-P---LLA--LLL-----LGL---V---SGS-PPL---D-D-----	21
<i>Rattus norvegicus</i> Adie	1	MR-P---LLA--LLL-----LGL---A---SGS-PPL---D-D-----	21
<i>Homo sapiens</i> ADIF1	1	MR-I---WWL--LLA-----IEI-C--TGN--INSQ-D-----	21
<i>Homo sapiens</i> ADIF2	1	MR-I---WWL--LLA-----IEI-C--TGN--INSQ-D-----	21
<i>Pan troglodytes</i> ADIF1	1	MR-I---WWF--LLA-----IEI-C--TGN--INSQ-D-----	21
<i>Pongo abelii</i> ADIF1	1	MR-I---WWF--LLA-----VEI-C--TGN--INSQ-D-----	21
<i>Nomascus leucogenys</i> ADIF1	1	MR-I---WWL--LLA-----IEI-C--KGN--INSQ-D-----	21
<i>Macaca mulatta</i> ADIF1	1	MR-I---WWF--LLA-----IGI-C--AGN--ISSQ-N-----	21
<i>Papio hamadryas</i> ADIF1	1	MR-I---WWF--LLA-----IEI-C--TGN--ISSQ-N-----	21

<i>Microcebus murinus</i> ADIF1	1	MK-I---CWL--LLA-----AGI-C--TGN--INAQ-D-----	21
<i>Otolemur garnettii</i> ADIF1	1	MK-I---WWL--LLA-----IGI-C--TGN--INAQ-D-----	21
<i>Mus musculus</i> Adif1	30	MR-I---WWL--LLV-----MGA-C--TRS--VFSQ-D-----	50
<i>Rattus norvegicus</i> Adif1	19	MR-I---WWL--LLV-----MDA---GS--VFSQ-D-----	37
<i>Cavia porcellus</i> ADIF1	1	MR-T---WWL--LLA-----LGV-C--TGA--MSSQ-D-----	21
<i>Oryctolagus cuniculus</i> ADIF1	1	MR-I---WWL--LLV-----TGV-C--TGS--VSSQ-D-----	21
<i>Ochotona princeps</i> ADIF1	1	MR-I---WWL--LLV-----IGV-C--LGS--VSIQ-D-----	21
<i>Bos taurus</i> ADIF1	1	MR-I---WWL--LLA-----SGV-C--TGM--VSSQ-D-----	21
<i>Equus caballus</i> ADIF1	1	MR-I---WWL--LLV-----TGI-C--TGK--VNSQ-D-----	21
<i>Canis lupus familiaris</i> ADIF1	1	MR-I---WLL--LLA-----AGI-C--MGN--VKSQ-D-----	21
<i>Felis catus</i> ADIF1	1	MR-T---WLL--LLA-----GGI-C--MGN--VNAQ-D-----	21
<i>Dasyopus novemcinctus</i> ADIF1	1	MR-I---WWV--LLA-----IGI-C--MGS--INSQ-D-----	22
<i>Loxodonta africana</i> ADIF1	1	MR-F---WWL--LLA-----VGA-C--TGN--INSQ-D-----	21
<i>Homo sapiens</i> ADIG	55	M--F---VLL--YVT-S----FAI-C--A----SGQ-PR-GNQLKG-E-----	80
<i>Pan troglodytes</i> ADIG	55	M--F---VLL--YVT-S----FAI-C--A----SGQ-PR-GNQLKG-E-----	80
<i>Pongo abelii</i> ADIG	55	M--F---VLL--YVT-S----FAI-C--A----SGQ-PR-GNQLKG-E-----	80
<i>Callithrix jacchus</i> ADIG	41	M--F---VLL--YVT-S----FAI-C--A----SGQ-PR-GNQLKG-E-----	66
<i>Otolemur garnettii</i> ADIG	1	M--F---VLL--YVT-S----FAI-C--A----SGQ-PR-GNQLKG-E-----	26
<i>Mus musculus</i> Adig	43	M--I---VLL--YVT-S----LAI-C--A----SGQ-PR-ANQAKG-E-----	68
<i>Rattus norvegicus</i> Adig	44	M--I---VLL--YVT-S----LAI-C--A----SGQ-PR-GNQAKG-E-----	69
<i>Cavia porcellus</i> ADIG	1	M--F---VLL--YVT-S----FAI-C--A----SGQ-PR-GSQVKG-E-----	26
<i>Oryctolagus cuniculus</i> ADIG	1	M--F---VLL--YVT-S----FAL-C--A----SGQ-PR-GHQFKG-E-----	26
<i>Tursiops truncatus</i> ADIG	53	M--F---VLL--YVT-S----FAI-C--A----SGQ-PR-GNQFKG-D-----	78
<i>Bos taurus</i> ADIG	1	M--F---VLL--YVT-S----FAI-C--A----SGQ-PR-SNQFKG-E-----	26
<i>Equus caballus</i> ADIG	42	M--F---VLL--YVT-S----FAI-C--A----SGQ-PR-GSQFKG-D-----	67
<i>Canis lupus familiaris</i> ADIG	42	M--F---ILL--YVT-S----FAI-C--A----SGQ-PR-GNQFKG-E-----	67
<i>Myotis lucifugus</i> ADIG	1	M--F---VLL--YVT-S----FAI-C--V----SGQ-PR-GNQFKG-E-----	26
<i>Homo sapiens</i> ADIH	1	M--I---PWV--LLA-C----ALP-C--A----AD-PLLGAFAARR-D-----	26
<i>Pan troglodytes</i> ADIH	1	M--I---PWV--LLA-C----ALP-C--A----AD-PLLGAFAARR-D-----	26
<i>Pongo abelii</i> ADIH	1	M--I---PWV--LLA-C----ALP-C--A----AD-PLLGAFAARR-D-----	26
<i>Nomascus leucogenys</i> ADIH	1	M--I---PWV--LLA-C----ALP-C--A----AD-PLLGAFAARR-D-----	26
<i>Macaca mulatta</i> ADIH	1	M--I---PWV--LLA-C----ALP-C--A----AD-PLLGAFAARR-D-----	26
<i>Papio hamadryas</i> ADIH	1	M--I---PWV--LLA-C----ALP-C--A----AD-PLLGAFAARR-D-----	26
<i>Mus musculus</i> Adih	8	M--I---SWV--LLA-C----ALP-C--A----AD-PMLGAFAARR-D-----	33
<i>Rattus norvegicus</i> Adih	45	M--I---SWM--LLA-C----ALP-C--A----AD-PMLGAFAARR-D-----	70
<i>Dipodomys ordii</i> ADIH	1	M--I---PWV--LLA-C----ALP-C--A----AD-PLLGPFARR-D-----	26
<i>Cavia porcellus</i> ADIH	1	M--I---PWV--LLA-C----ALP-C--A----AD-PLLAAYARR-D-----	26
<i>Bos taurus</i> ADIH	18	M--I---PWV--LLA-C----ALP-C--A----AD-PLLAFAARR-D-----	43
<i>Equus caballus</i> ADIH	1	M--I---PWV--LLA-C----ALP-C--A----AD-PLLGAFAARR-D-----	26
<i>Canis lupus familiaris</i> ADIH	1	M--I---PWV--LLA-C----ALP-C--A----AD-PLLGAFAARR-D-----	26
<i>Pteropus vampyrus</i> ADIH	1	M--I---PWV--LLA-C----ALP-C--A----AD-PLLGAFAARR-D-----	26
<i>Loxodonta africana</i> ADIH	1	M--I---SWV--LLA-C----ALP-C--A----TD-PLLGAFAARR-D-----	26
<i>Homo sapiens</i> ADII	1	M-----ALG--LLIA---VPLLL---QAAPRGAHAYEMM-----	26
<i>Pongo abelii</i> ADII	1	M-----ALG--LLIA---VPLLL---QAAPRAAHAYEMM-----	26
<i>Macaca mulatta</i> ADII	1	M-----ALG--LLIA---VPLLL---QAAPPGAHAYEMM-----	26
<i>Mus musculus</i> Adii	1	M-----ALG--LLIA---VPLLL---QAAPPGAHAYEML-----	26
<i>Rattus norvegicus</i> Adii	1	M-----ALG--LLIA---VPLLL---QAAPPGAHAYEML-----	26
<i>Bos taurus</i> ADII	1	M-----ALG--LLIA---VPLLL---QAAPPGAHAYEMM-----	26
<i>Canis lupus familiaris</i> ADII	1	M-----ALG--LLIA---VPLLL---QAAPPGAHAYEMM-----	26
<i>Dasyopus novemcinctus</i> ADII	1	M-----ALA--LLIA---VPLLL---QAAPPGAHAYEMM-----	26
<i>Homo sapiens</i> ADIJ	1	M-----VLL--LVIL---IPVLV---SSA-GTSAHYEML-----	25
<i>Pan troglodytes</i> ADIJ	1	M-----VLL--LVIL---IPVLV---SSA-GTSAHYEML-----	25
<i>Papio hamadryas</i> ADIJ	1	M-----VLL--LVIL---IPVLV---SSA-GTSAHYEML-----	25
<i>Mus musculus</i> Adij	1	M-----VLL--LVIL---IPVLV---SSA-GTSAHYEML-----	25
<i>Rattus norvegicus</i> Adij	1	M-----VLL--LVIL---IPVLV---SSA-GTSAHYEML-----	25
<i>Oryctolagus cuniculus</i> ADIJ	1	M-----VLL--LVIL---IPVLV---SSA-GTSAHYEML-----	25
<i>Bos taurus</i> ADIJ	1	M-----VLL--LVIL---IPVLV---SSA-GTSAHYEML-----	25
<i>Canis lupus familiaris</i> ADIJ	1	M-----VLL--LVIL---IPVLV---SSA-GTSAHYEML-----	25
<i>Loxodonta africana</i> ADIJ	1	M-----VLL--LVIL---IPVLV---SSA-GTSAHYEML-----	25
<i>Homo sapiens</i> ADIK	1	M-----VLL--LLVA---IPLLV---HSS-RGPAHYEML-----	25
<i>Pan troglodytes</i> ADIK	1	M-----VLL--LLVA---IPLLV---HSS-RGPAHYEML-----	25
<i>Gorilla gorilla</i> ADIK	1	M-----VLL--LLVA---IPLLV---HSS-RGPAHYEML-----	25
<i>Papio hamadryas</i> ADIK	1	M-----VLL--LLVA---IPLLV---HSS-RGPAHYEML-----	25
<i>Callithrix jacchus</i> ADIK	1	M-----VLL--LLVA---IPLLV---HSS-RGPAHYEML-----	25
<i>Rattus norvegicus</i> Adik	1	M-----VLL--LLVA---IPLLV---HSS-RGPTHYEML-----	25
<i>Cavia porcellus</i> ADIK	1	M-----VLL--LLVA---IPLLV---HSS-RGPAHYEML-----	25
<i>Equus caballus</i> ADIK	1	M-----VLL--LLVA---IPLLV---QSS-RGPAHYEML-----	25
<i>Canis lupus familiaris</i> ADIK	1	M-----VLL--LLVA---IPLLV---HSS-RGPAHYEML-----	25
<i>Dasyopus novemcinctus</i> ADIK	1	M-----VLL--LLVA---IPLLV---HSS-RGPAHYEML-----	25
<i>Loxodonta africana</i> ADIK	1	M-----VLL--LLVA---IPLLV---HSS-REPAHYEML-----	25
<i>Mus musculus</i> Adil	1	M-----LLV--LVVL---IPVLV---SSG-GPDGHYEML-----	25
<i>Rattus norvegicus</i> Adil	1	M-----LLV--LVVL---IPVLV---SSG-GPDGHYEML-----	25
<i>Homo sapiens</i> ADIM	112	M--L-WRQLIY--WQLL--A-LFPLPFC-----LCQDEYMESPQTG-G-----	145
<i>Pan troglodytes</i> ADIM	112	M--L-WRQLVY--WQLL--A-LFPLPFC-----LCQDEYMESPQTG-G-----	145

<i>Pongo abelii</i> ADIM	68	M--L-WRQLIY--WQLL--A-LFFLPFC-----LCQDEYMESPQTG-G-----	101
<i>Nomascus leucogenys</i> ADIM	112	M--L-WRQLVY--WQLL--A-LFFLPFC-----LCQDEYMESPQTG-G-----	145
<i>Papio hamadryas</i> ADIM	112	M--L-WRQLVY--WQLL--A-LFFLPFC-----LCQDEYMESPQTG-G-----	145
<i>Callithrix jacchus</i> ADIM	102	M--L-WRQLIY--WQLL--A-LFFLPFC-----LCQDEYMESPQTG-G-----	135
<i>Mus musculus</i> Adim	1	M--L-GRQRIW--WHLL--P-LLFLPFC-----LCQDEYMESPQAG-G-----	34
<i>Rattus norvegicus</i> Adim	75	M--L-RRQLVW--WHLL--A-LFFLPFC-----LCQDEYMESPQAG-G-----	108
<i>Cavia porcellus</i> ADIM	67	M--L-GSQCIC--WHLL--A-LFFLPFC-----LCQDDYMEPPQTGGG-----	101
<i>Bos taurus</i> ADIM	1	M--L-GRQLVY--WHLL--A-LFFLPFC-----LCQDEYMESPQTG-G-----	34
<i>Equus caballus</i> ADIM	1	M--L-RRQLVY--WHLL--A-LFFLPFC-----LCQDEYMESPQTG-G-----	34
<i>Canis lupus familiaris</i> ADIM	62	M--L-GRQLFY--WHLL--A-LFFLPFC-----LCQDEYMESPQTG-G-----	95
<i>Homo sapiens</i> ADIN	1	M-LP----LLL--GLLG----PAA--C-----WA-----	16
<i>Pan troglodytes</i> ADIN	1	M-LP----LLL--GLLG----PAA--C-----WA-----	16
<i>Pongo abelii</i> ADIN	1	M-LP----LLL--VLLG----PAA--C-----WA-----	16
<i>Nomascus leucogenys</i> ADIN	1	M-LP----LLL--GLLG----PAA--C-----WA-----	16
<i>Macaca mulatta</i> ADIN	1	M-LP----LLL--GLLG----PAA--C-----WA-----	16
<i>Callithrix jacchus</i> ADIN	1	M-LP----LLL--GLLG----PVG--C-----WA-----	16
<i>Mus musculus</i> Adin	1	M-LL----LLL--GFLG----PAA--C-----WA-----	16
<i>Cavia porcellus</i> ADIN	12	M-LL----LLF--GLLA----PAT--C-----WA-----	27
<i>Tursiops truncatus</i> ADIN	1	M-LP----LLL--GLLG----PAA--C-----WA-----	16
<i>Canis lupus familiaris</i> ADIN	1	M-LL----LLL--GLLG----PAA--C-----WA-----	16
<i>Dasyops novemcinctus</i> ADIN	1	M-LT----LLL--GLLG----PVA--C-----WA-----	16
<i>Loxodonta africana</i> ADIN	1	M-LP----ILL--GLLG----PAA--C-----WA-----	16
<i>Homo sapiens</i> ADIO	1	M--A---A---PALL--L-LALLL-----P-V-GAW-PGL-----	21
<i>Pan troglodytes</i> ADIO	1	M--A---A---PALL--L-LALLL-----P-A-GAW-PGL-----	21
<i>Macaca mulatta</i> ADIO	1	M--A---A---PTLL--L-LALLL-----P-A-GAW-PGL-----	21
<i>Bos taurus</i> ADIO	1	M--V---A---PALL--LLLA--L-----P-A-GAW-RGL-----	20
<i>Myotis lucifugus</i> ADIO	1	M--A---A---PGLL--LLLA--L-----P-A-GAW-PRL-----	20
<i>Homo sapiens</i> ADIP	99	MGSR---GQG--LLLAYCLLLAFA--S--G-L-V-LSRVPHVQGEQQEWE-----	136
<i>Otolemur garnettii</i> ADIP	1	MRSP---GWG--RVLACCLLLAVA--C--G-P-A-LSLVPRIQHEEQEQE-----	38
<i>Mus musculus</i> Adip	1	MGSC---AQG--FMLGCCLLLAIT--W--G-P-I-LSLVPVQGEQQEWE-----	38
<i>Cavia porcellus</i> ADIP	1	MGSR---GQR--LVLGCCLLLAFA--W--G-L-V-LSHVPRGQGEQQEWE-----	38
<i>Bos taurus</i> ADIP	26	MGSR---GLR--LALACCLLLAFA--C--G-L-V-LGRVPHGQGEQQEWE-----	63
<i>Equus caballus</i> ADIP	1	MGSR---GLG--LVLACCLLLAFA--C--G-P-V-LGRVPPGQGEQQEWE-----	38
<i>Loxodonta africana</i> ADIP	44	MGAL---ALG--LQLGCCLLVLIFA--C--A-P-V-LGRTPRGQQNQQEHEATPGDSKAE	90
<i>Homo sapiens</i> ADIQ	20	MVTA---ALG--PVWA--ALLLFLLMC--EIPMV-ELTFDRA-----	51
<i>Pan troglodytes</i> ADIQ	20	MGTA---ALG--PLWA--ALLLFLLMC--EIPMV-ELTFDRA-----	51
<i>Pongo abelii</i> ADIQ	20	MGTA---ALG--PLWA--ALLLFLLMC--EIPTV-ELTFDRA-----	51
<i>Nomascus leucogenys</i> ADIQ	20	MGTA---TLG--PLWA--VLLLFLLMC--EIPTV-ELTFDRA-----	51
<i>Macaca mulatta</i> ADIQ	20	MGTA---ALG--PLWA--VLLLFLLMC--EVPKV-ELTFDRA-----	51
<i>Mus musculus</i> Adiq	5	MGIA---SIG--FLWA--VFLLPLVVF--GVPTE-ETTFGES-----	35
<i>Rattus norvegicus</i> Adiq	5	MGTA---SIG--SIWA--VFLLPLVVF--GVPTE-EPTTFGES-----	35
<i>Homo sapiens</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15
<i>Pan troglodytes</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15
<i>Pongo abelii</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15
<i>Nomascus leucogenys</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15
<i>Macaca mulatta</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15
<i>Papio hamadryas</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15
<i>Callithrix jacchus</i> ADIR	1	M--TP---VDV--PVSN----PAA-----TI-----	15
<i>Tarsius syrichta</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15
<i>Otolemur garnettii</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TV-----	15
<i>Tupaia belangeri</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15
<i>Mus musculus</i> Adir	1	M--TP---VDV--PVTS----PAA-----AI-----	15
<i>Rattus norvegicus</i> Adir	1	M--TP---VDV--PVTS----PAA-----AI-----	15
<i>Cavia porcellus</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TL-----	15
<i>Oryctolagus cuniculus</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15
<i>Tursiops truncatus</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15
<i>Bos taurus</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15
<i>Equus caballus</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15
<i>Canis lupus familiaris</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15
<i>Myotis lucifugus</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15
<i>Pteropus vampyrus</i> ADIR	1	M--TP---VDV--PVTS----PAA-----TI-----	15
<i>Erinaceus europaeus</i> ADIR	-	-	-
<i>Dasyops novemcinctus</i> ADIR	1	M--TP---VDV--PVTS----PAT-----TI-----	15
<i>Choloepus hoffmanni</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15
<i>Loxodonta africana</i> ADIR	1	M--TP---VDV--PVTN----PAA-----TI-----	15

<i>Microcebus murinus</i> ADIF1	22	-----TC-----	23
<i>Otolemur garnettii</i> ADIF1	22	-----TC-----	23
<i>Mus musculus</i> Adif1	51	-----TC-----	52
<i>Rattus norvegicus</i> Adif1	38	-----TC-----	39
<i>Cavia porcellus</i> ADIF1	22	-----TC-----	23
<i>Oryctolagus cuniculus</i> ADIF1	22	-----TC-----	23
<i>Ochotona princeps</i> ADIF1	22	-----TC-----	23
<i>Bos taurus</i> ADIF1	22	-----TC-----	23
<i>Equus caballus</i> ADIF1	22	-----TC-----	23
<i>Canis lupus familiaris</i> ADIF1	22	-----TC-----	23
<i>Felis catus</i> ADIF1	22	-----TC-----	23
<i>Dasyopus novemcinctus</i> ADIF1	23	-----TC-----	24
<i>Loxodonta africana</i> ADIF1	22	-----MC-----	23
<i>Homo sapiens</i> ADIG	81	-----NYSPRYIC-----	88
<i>Pan troglodytes</i> ADIG	81	-----NYSPRYIC-----	88
<i>Pongo abelii</i> ADIG	81	-----NYSPRYIC-----	88
<i>Callithrix jacchus</i> ADIG	67	-----NYSPRYIC-----	74
<i>Otolemur garnettii</i> ADIG	27	-----NYSPRYIC-----	34
<i>Mus musculus</i> Adig	69	-----SYSPRYIC-----	76
<i>Rattus norvegicus</i> Adig	70	-----SYSPRYIC-----	77
<i>Cavia porcellus</i> ADIG	27	-----SYSPRYIC-----	34
<i>Oryctolagus cuniculus</i> ADIG	27	-----SYTPRYIC-----	34
<i>Tursiops truncatus</i> ADIG	79	-----SYSPRYIC-----	86
<i>Bos taurus</i> ADIG	27	-----SYSPRYIC-----	34
<i>Equus caballus</i> ADIG	68	-----SYSPRYIC-----	75
<i>Canis lupus familiaris</i> ADIG	68	-----SYSPRYIC-----	75
<i>Myotis lucifugus</i> ADIG	27	-----SYAPRYIC-----	34
<i>Homo sapiens</i> ADIH	27	-----FRKGSPQLVC-----	36
<i>Pan troglodytes</i> ADIH	27	-----FRKGSPQLIC-----	36
<i>Pongo abelii</i> ADIH	27	-----FRKSSPQLVC-----	36
<i>Nomascus leucogenys</i> ADIH	27	-----FRKGSPQLVC-----	36
<i>Macaca mulatta</i> ADIH	27	-----FRKGSPQLVC-----	36
<i>Papio hamadryas</i> ADIH	27	-----FRKGSPQLVC-----	36
<i>Mus musculus</i> Adih	34	-----FQKGGPQLVC-----	43
<i>Rattus norvegicus</i> Adih	71	-----FQKGGPQLVC-----	80
<i>Dipodomys ordii</i> ADIH	27	-----FQKGAPQLIC-----	36
<i>Cavia porcellus</i> ADIH	27	-----FQKGGPQLVC-----	36
<i>Bos taurus</i> ADIH	44	-----FQKGGPQLIC-----	53
<i>Equus caballus</i> ADIH	27	-----FQKGGPQLVC-----	36
<i>Canis lupus familiaris</i> ADIH	27	-----FQKGGPQLVC-----	36
<i>Pteropus vampyrus</i> ADIH	27	-----FQKSSQLVC-----	36
<i>Loxodonta africana</i> ADIH	27	-----IKKGGPQLIC-----	36
<i>Homo sapiens</i> ADII	27	-----GTCRMIC-DP-YTAA-PGGEPGAKAQP-----	51
<i>Pongo abelii</i> ADII	27	-----GTCRMIC-DP-YTAA-PGGGPAGAKAQP-----	51
<i>Macaca mulatta</i> ADII	27	-----GTCRMIC-DP-YTAA-PGGGPAGAKAQP-----	51
<i>Mus musculus</i> Adii	27	-----GTCRMIC-DP-YSVA-PAGGPAGAKAPP-----	51
<i>Rattus norvegicus</i> Adii	27	-----GTCRMIC-DP-YTVS-PAGGPAGAKAPP-----	51
<i>Bos taurus</i> ADII	27	-----GTCRMIC-DP-YTAA-PGAGPAGAKAPP-----	51
<i>Canis lupus familiaris</i> ADII	27	-----GTCRMIC-DP-YGAA-PAGGPAGAKAPP-----	51
<i>Dasyopus novemcinctus</i> ADII	27	-----GTCRMIC-DP-YSAS-PGGGPAGAKAPP-----	51
<i>Homo sapiens</i> ADIJ	26	-----GTCRMVC-DP-YG-----GTKA--	40
<i>Pan troglodytes</i> ADIJ	26	-----GTCRMVC-DP-YG-----GTKA--	40
<i>Papio hamadryas</i> ADIJ	26	-----GTCRMVC-DP-YG-----GTKA--	40
<i>Mus musculus</i> Adij	26	-----GTCRMVC-DP-YG-----GTKA--	40
<i>Rattus norvegicus</i> Adij	26	-----GTCRMVC-DP-YG-----GTKA--	40
<i>Oryctolagus cuniculus</i> ADIJ	26	-----GTCRMVC-DP-YG-----GTKA--	40
<i>Bos taurus</i> ADIJ	26	-----GTCRMVC-DP-YG-----GTKA--	40
<i>Canis lupus familiaris</i> ADIJ	26	-----GTCRMVC-DP-YG-----GTKA--	40
<i>Loxodonta africana</i> ADIJ	26	-----GTCRMVC-DP-YG-----GTKA--	40
<i>Homo sapiens</i> ADIK	26	-----GRCRMVC-DP-H-----	35
<i>Pan troglodytes</i> ADIK	26	-----GRCRMVC-DP-H-----	35
<i>Gorilla gorilla</i> ADIK	26	-----GRCRMVC-DP-H-----	35
<i>Papio hamadryas</i> ADIK	26	-----GRCRMVC-DP-H-----	35
<i>Callithrix jacchus</i> ADIK	26	-----GRCRMVC-DP-H-----	35
<i>Rattus norvegicus</i> Adik	26	-----GRCRMVC-DP-H-----	35
<i>Cavia porcellus</i> ADIK	26	-----GRCRMVC-DP-H-----	35
<i>Equus caballus</i> ADIK	26	-----GRCRMVC-DP-H-----	35
<i>Canis lupus familiaris</i> ADIK	26	-----GRCRMVC-DP-H-----	35
<i>Dasyopus novemcinctus</i> ADIK	26	-----GRCRMVC-DP-H-----	35
<i>Loxodonta africana</i> ADIK	26	-----GRCRMVC-DP-H-----	35
<i>Mus musculus</i> Adil	26	-----GTCRMVC-DP-YPARGPGA---GARSD-	47
<i>Rattus norvegicus</i> Adil	26	-----GTCRMVC-DP-YPARGPGA---GARSD-	47
<i>Homo sapiens</i> ADIM	146	-----LP-PDCSK-CC---H-----	155
<i>Pan troglodytes</i> ADIM	146	-----LP-PDCSK-CC---H-----	155

<i>Pongo abelii</i> ADIM	102	-----LP-PDCSK-CC---H-----	111
<i>Nomascus leucogenys</i> ADIM	146	-----LP-PDCSK-CC---H-----	155
<i>Papio hamadryas</i> ADIM	146	-----LP-PDCSK-CC---H-----	155
<i>Callithrix jacchus</i> ADIM	136	-----MA-PDCSK-CC---H-----	145
<i>Mus musculus</i> Adim	35	-----LP-PDCSK-CC---H-----	44
<i>Rattus norvegicus</i> Adim	109	-----LP-PDCSK-CC---H-----	118
<i>Cavia porcellus</i> ADIM	102	-----LP-PDCSK-CC---H-----	111
<i>Bos taurus</i> ADIM	35	-----LP-PDCSK-CC---H-----	44
<i>Equus caballus</i> ADIM	35	-----LP-PDCSK-CC---H-----	44
<i>Canis lupus familiaris</i> ADIM	96	-----LP-PDCSK-CC---H-----	105
<i>Homo sapiens</i> ADIN	-	-----	-
<i>Pan troglodytes</i> ADIN	-	-----	-
<i>Pongo abelii</i> ADIN	-	-----	-
<i>Nomascus leucogenys</i> ADIN	-	-----	-
<i>Macaca mulatta</i> ADIN	-	-----	-
<i>Callithrix jacchus</i> ADIN	-	-----	-
<i>Mus musculus</i> Adin	-	-----	-
<i>Cavia porcellus</i> ADIN	-	-----	-
<i>Tursiops truncatus</i> ADIN	-	-----	-
<i>Canis lupus familiaris</i> ADIN	-	-----	-
<i>Dasybus novemcinctus</i> ADIN	-	-----	-
<i>Loxodonta africana</i> ADIN	-	-----	-
<i>Homo sapiens</i> ADIO	22	-----PRRPCVH-CCRPAPW---PG--P-YARVS-	43
<i>Pan troglodytes</i> ADIO	22	-----PRRPCVH-CCRPAPW---PG--P-YARVS-	43
<i>Macaca mulatta</i> ADIO	22	-----PRRPCVH-CCHPAWP---PG--P-YARVS-	43
<i>Bos taurus</i> ADIO	21	-----GLPRRPCVQ-CCHPAWPPAAPG--P-GAHVS-	47
<i>Myotis lucifugus</i> ADIO	21	-----GPPHRPCVH-CCHPAWPPAAPG--S-YTPEG-	47
<i>Homo sapiens</i> ADIP	137	GTEELPSPDPDHAERAEQHEKYRPSQDQGLPASRCLR-CCDPGTS---MY--P-ATAV--	187
<i>Otolemur garnettii</i> ADIP	39	GTKEPPTPPDHTDRAEEKHEKYRPSQGEELPTSQCFR-CCDPAAP---LY--P-VAPV--	89
<i>Mus musculus</i> Adip	39	ETEELPSPPLDPVTRPEETREKYSRQGEDLPTSRCYR-CCDPSTP---VY--Q-TIPP--	89
<i>Cavia porcellus</i> ADIP	39	GTQKPPPLMDHAERDEDKHEKYSTSLGEELPASQCFR-CCDPGTP---VY--Q-GIPV--	89
<i>Bos taurus</i> ADIP	64	GTREPP--MDHAERDEEHEKYGPRQDEEAPASRCLR-CCDPGTP---VY--Q-AIPV--	112
<i>Equus caballus</i> ADIP	39	GTREPP--LDPARTTEKHEKYNPKQGEETASRCLR-CCDPGTP---VY--Q-AIPV--	87
<i>Loxodonta africana</i> ADIP	91	GTKEPPPPRGHPERAEEHEKYSPRQAEPPASRCLR-CCDPSAP---VY--Q-PIPV--	141
<i>Homo sapiens</i> ADIQ	52	-----VAS----G-CQR-CCDSEDP---LD--P--AHVS-	72
<i>Pan troglodytes</i> ADIQ	52	-----VAS----G-CQR-CCDSEDP---LD--P--AHVS-	72
<i>Pongo abelii</i> ADIQ	52	-----VAS----G-CQR-CCDSEDP---LD--P--AHVS-	72
<i>Nomascus leucogenys</i> ADIQ	52	-----VAS----S-CQR-CCDSEDP---LD--P--AHVS-	72
<i>Macaca mulatta</i> ADIQ	52	-----VAS----G-CQR-CCDSEDP---LD--P--AHVS-	72
<i>Mus musculus</i> Adiq	36	-----VASHLPKG-CRR-CCDPEDL---MS--S--DDTV-	60
<i>Rattus norvegicus</i> Adiq	36	-----VASHLPKN-CQR-CCDPEDP---LS--P--ADTV-	60
<i>Homo sapiens</i> ADIR	-	-----	-
<i>Pan troglodytes</i> ADIR	-	-----	-
<i>Pongo abelii</i> ADIR	-	-----	-
<i>Nomascus leucogenys</i> ADIR	-	-----	-
<i>Macaca mulatta</i> ADIR	-	-----	-
<i>Papio hamadryas</i> ADIR	-	-----	-
<i>Callithrix jacchus</i> ADIR	-	-----	-
<i>Tarsius syrichta</i> ADIR	-	-----	-
<i>Otolemur garnettii</i> ADIR	-	-----	-
<i>Tupaia belangeri</i> ADIR	-	-----	-
<i>Mus musculus</i> Adir	-	-----	-
<i>Rattus norvegicus</i> Adir	-	-----	-
<i>Cavia porcellus</i> ADIR	-	-----	-
<i>Oryctolagus cuniculus</i> ADIR	-	-----	-
<i>Tursiops truncatus</i> ADIR	-	-----	-
<i>Bos taurus</i> ADIR	-	-----	-
<i>Equus caballus</i> ADIR	-	-----	-
<i>Canis lupus familiaris</i> ADIR	-	-----	-
<i>Myotis lucifugus</i> ADIR	-	-----	-
<i>Pteropus vampyrus</i> ADIR	-	-----	-
<i>Erinaceus europaeus</i> ADIR	-	-----	-
<i>Dasybus novemcinctus</i> ADIR	-	-----	-
<i>Choloepus hoffmanni</i> ADIR	-	-----	-
<i>Loxodonta africana</i> ADIR	-	-----	-

<i>Homo sapiens</i> ADIA	32	-----TGP-PAIPGIP-----GIP	44
<i>Homo sapiens</i> ADIA	32	-----250-----260-----270-----280-----290-----300-----GIP	44
<i>Papio hamadryas</i> ADIA	32	-----TGP-PAIPGTP-----GIP	44
<i>Mus musculus</i> Adia	59	-----TGP-PGIPGIP-----GVP	71
<i>Rattus norvegicus</i> Adia	30	-----TGS-PGIPGVP-----GIP	42
<i>Cavia porcellus</i> ADIA	30	-----VGH-PAIPGIP-----GIP	42
<i>Ochotona princeps</i> ADIA	30	-----SGH-PAIPGTP-----GIP	42
<i>Bos taurus</i> ADIA	27	-----I-R-PSIPGIP-----GIP	38
<i>Equus caballus</i> ADIA	31	-----PAS-QGIPGIP-----GIP	43
<i>Canis lupus familiaris</i> ADIA	29	-----TGH-PAIPGIP-----GIP	41
<i>Felis catus</i> ADIA	33	-----TGH-PAIPGIP-----GIP	45
<i>Myotis lucifugus</i> ADIA	30	-----TGP-AAIPGIP-----GIP	42
<i>Dasyopus novemcinctus</i> ADIA	27	-----TGP-ATIPGTP-----GIP	39
<i>Loxodonta africana</i> ADIA	30	-----SGP-RTIPGIP-----GIP	42
<i>Homo sapiens</i> ADIB	33	-----Y-----GIP-----GMP	39
<i>Pan troglodytes</i> ADIB	33	-----Y-----GIP-----GMP	39
<i>Pongo abelii</i> ADIB	33	-----Y-----GIP-----GMP	39
<i>Nomascus leucogenys</i> ADIB	34	-----Y-----GIP-----GMP	40
<i>Callithrix jacchus</i> ADIB	32	-----Y-----GIP-----GMP	38
<i>Otolemur garnettii</i> ADIB	31	-----Y-----GIP-----GMP	37
<i>Mus musculus</i> Adib	64	-----Y-----GIP-----GMP	70
<i>Rattus norvegicus</i> Adib	56	-----Y-----GIP-----GMP	62
<i>Cavia porcellus</i> ADIB	80	-----Y-----GIP-----GMP	86
<i>Oryctolagus cuniculus</i> ADIB	86	-----Y-----GIP-----GMP	92
<i>Bos taurus</i> ADIB	31	-----Y-----GIP-----GMP	37
<i>Equus caballus</i> ADIB	51	-----Y-----GIP-----GMP	57
<i>Canis lupus familiaris</i> ADIB	33	-----Y-----GIP-----GMP	39
<i>Myotis lucifugus</i> ADIB	33	-----Y-----GIP-----GMP	39
<i>Loxodonta africana</i> ADIB	31	-----Y-----GIP-----GMP	37
<i>Homo sapiens</i> ADIC	27	-----RAP-D---GKK-----GEA	36
<i>Macaca mulatta</i> ADIC	27	-----RAP-D---GKN-----GVA	36
<i>Papio hamadryas</i> ADIC	27	-----RAP-D---GKN-----GVA	36
<i>Callithrix jacchus</i> ADIC	27	-----QAP-N---GKD-----GVA	36
<i>Mus musculus</i> Adic	27	-----RAP-N---GKD-----GAP	36
<i>Rattus norvegicus</i> Adic	39	-----RAP-N---GKD-----GVA	48
<i>Cavia porcellus</i> ADIC	26	-----RAP-N---GKD-----GAA	35
<i>Oryctolagus cuniculus</i> ADIC	68	-----RAP-D---GKD-----GAA	77
<i>Equus caballus</i> ADIC	60	-----RAL-N---GKD-----GAP	69
<i>Canis lupus familiaris</i> ADIC	46	-----RAL-D---GRD-----GAA	55
<i>Myotis lucifugus</i> ADIC	27	-----RAP-D---GRD-----GVA	36
<i>Loxodonta africana</i> ADIC	42	-----RAP-D---GTD-----GTP	51
<i>Homo sapiens</i> ADID	68	-----TG---WMAGIP-----GHP	78
<i>Pan troglodytes</i> ADID	68	-----TG---WMAGIP-----GHP	78
<i>Pongo abelii</i> ADID	37	-----TG---WMAGIP-----GHP	47
<i>Nomascus leucogenys</i> ADID	67	-----TG---WMAGIP-----GHP	77
<i>Macaca mulatta</i> ADID	66	-----TG---WMAGIP-----GHP	76
<i>Otolemur garnettii</i> ADID	37	-----MG---WMAGIP-----GHP	47
<i>Mus musculus</i> Adid	51	-----AG---WMAGIP-----GHP	61
<i>Rattus norvegicus</i> Adid	37	-----AG---WMAGIP-----GYP	47
<i>Cavia porcellus</i> ADID	79	-----AG---WMAGIP-----GHP	89
<i>Oryctolagus cuniculus</i> ADID	47	-----AG---WIAGIP-----GHP	57
<i>Bos taurus</i> ADID	32	-----AG---WMAGIP-----GHP	42
<i>Equus caballus</i> ADID	94	-----AG---WMAGIP-----GHP	104
<i>Canis lupus familiaris</i> ADID	46	-----PG---WMAGIP-----GHP	56
<i>Felis catus</i> ADID	37	-----TG---WMAGIP-----GHP	47
<i>Myotis lucifugus</i> ADID	46	-----TG---WVAGIP-----GHP	56
<i>Dasyopus novemcinctus</i> ADID	38	-----V-----IAGIP-----GLP	46
<i>Loxodonta africana</i> ADID	37	-----AG---WMAGIP-----GHP	47
<i>Homo sapiens</i> ADIE	29	-----PGHP-----GLP	35
<i>Pan troglodytes</i> ADIE	29	-----PGHP-----GLP	35
<i>Pongo abelii</i> ADIE	29	-----PGHP-----GLP	35
<i>Papio hamadryas</i> ADIE	29	-----PGHP-----GLP	35
<i>Callithrix jacchus</i> ADIE	29	-----PGHP-----GLP	35
<i>Otolemur garnettii</i> ADIE	29	-----PGHP-----GLP	35
<i>Mus musculus</i> Adie	29	-----PGQP-----GLP	35
<i>Rattus norvegicus</i> Adie	29	-----PGQP-----GLP	35
<i>Homo sapiens</i> ADIF1	24	-----RQHP-----GIP	31
<i>Homo sapiens</i> ADIF2	24	-----RQHP-----GIP	31
<i>Pan troglodytes</i> ADIF1	24	-----RQHP-----GIP	31
<i>Pongo abelii</i> ADIF1	24	-----RQHP-----GIP	31
<i>Nomascus leucogenys</i> ADIF1	24	-----RQHP-----GIP	31
<i>Macaca mulatta</i> ADIF1	24	-----RQHP-----GIP	31
<i>Papio hamadryas</i> ADIF1	24	-----RQHP-----GIP	31

<i>Microcebus murinus</i> ADIF1	24	-----RQGHP-----	GVP	31		
<i>Otolemur garnettii</i> ADIF1	24	-----RQGPS-----	GIP	31		
<i>Mus musculus</i> Adif1	53	-----RQGHS-----	GIP	60		
<i>Rattus norvegicus</i> Adif1	40	-----RQGHS-----	GIP	47		
<i>Cavia porcellus</i> ADIF1	24	-----RQGHS-----	GIP	31		
<i>Oryctolagus cuniculus</i> ADIF1	24	-----RQGHP-----	GIP	31		
<i>Ochotona princeps</i> ADIF1	24	-----RQGHP-----	GMP	31		
<i>Bos taurus</i> ADIF1	24	-----KQGHP-----	GIP	31		
<i>Equus caballus</i> ADIF1	24	-----RQGHP-----	GIP	31		
<i>Canis lupus familiaris</i> ADIF1	24	-----RQGHP-----	GIP	31		
<i>Felis catus</i> ADIF1	24	-----RQGHP-----	GVP	31		
<i>Dasyopus novemcinctus</i> ADIF1	25	-----RQGHP-----	GIP	32		
<i>Loxodonta africana</i> ADIF1	24	-----RQGHS-----	GIP	31		
<i>Homo sapiens</i> ADIG	89	-----S----IPGLP-----	GPP	97		
<i>Pan troglodytes</i> ADIG	89	-----S----IPGLP-----	GPP	97		
<i>Pongo abelii</i> ADIG	89	-----S----IPGLP-----	GPP	97		
<i>Callithrix jacchus</i> ADIG	75	-----S----IPGLP-----	GPP	83		
<i>Otolemur garnettii</i> ADIG	35	-----S----IPGLP-----	GPP	43		
<i>Mus musculus</i> Adig	77	-----S----IPGLP-----	GPP	85		
<i>Rattus norvegicus</i> Adig	78	-----S----IPGLP-----	GPP	86		
<i>Cavia porcellus</i> ADIG	35	-----S----IPGLP-----	GPP	43		
<i>Oryctolagus cuniculus</i> ADIG	35	-----S----IPGLP-----	GPP	43		
<i>Tursiops truncatus</i> ADIG	87	-----S----IPGLP-----	GPP	95		
<i>Bos taurus</i> ADIG	35	-----S----IPGLP-----	GPP	43		
<i>Equus caballus</i> ADIG	76	-----S----IPGLP-----	GPP	84		
<i>Canis lupus familiaris</i> ADIG	76	-----S----IPGLP-----	GPP	84		
<i>Myotis lucifugus</i> ADIG	35	-----S----IPGLP-----	GPP	43		
<i>Homo sapiens</i> ADIH	37	-----S----LPGPQ-----	GPP	45		
<i>Pan troglodytes</i> ADIH	37	-----S----LPGPQ-----	GPP	45		
<i>Pongo abelii</i> ADIH	37	-----S----LPGPQ-----	GPP	45		
<i>Nomascus leucogenys</i> ADIH	37	-----S----LPGPQ-----	GPP	45		
<i>Macaca mulatta</i> ADIH	37	-----S----LPGPQ-----	GPP	45		
<i>Papio hamadryas</i> ADIH	37	-----S----LPGPQ-----	GPP	45		
<i>Mus musculus</i> Adih	44	-----S----LPGPQ-----	GPP	52		
<i>Rattus norvegicus</i> Adih	81	-----S----LPGPQ-----	GPP	89		
<i>Dipodomys ordii</i> ADIH	37	-----S----LPGPQ-----	GPP	45		
<i>Cavia porcellus</i> ADIH	37	-----S----LPGPQ-----	GPP	45		
<i>Bos taurus</i> ADIH	54	-----S----MPGPQ-----	GPP	62		
<i>Equus caballus</i> ADIH	37	-----S----LPGPQ-----	GPP	45		
<i>Canis lupus familiaris</i> ADIH	37	-----S----LPGPQ-----	GPP	45		
<i>Pteropus vampyrus</i> ADIH	37	-----S----LPGPQ-----	GPP	45		
<i>Loxodonta africana</i> ADIH	37	-----S----MPGPQ-----	GPP	45		
<i>Homo sapiens</i> ADII	52	PGPSTAA-LEVMQDLSANPPP-PFIQGP	GDPGRP	90		
<i>Pongo abelii</i> ADII	52	PGPSTAA-LEVMQDLSANPPP-PFIQGP	GDPGRP	90		
<i>Macaca mulatta</i> ADII	52	PGPSTAA-LEVMQDLSANPPP-PFIQGP	GDPGRP	90		
<i>Mus musculus</i> Adii	52	PGPSTAA-LEVMQDLSANPPP-PFIQGP	GDPGRP	90		
<i>Rattus norvegicus</i> Adii	52	PGPSTAA-LEVMQDLSANPPP-PFIQGP	GDPGRP	90		
<i>Bos taurus</i> ADII	52	PGPSTAA-LEVMQDLSINPPP-PFIQGP	GDPGRP	90		
<i>Canis lupus familiaris</i> ADII	52	PGPSTAA-LEVMQDLSANPPP-PFIQGP	GDPGRP	90		
<i>Dasyopus novemcinctus</i> ADII	52	PGPSTAA-LEVMQDLSANPPP-PFIQGP	GDPGRP	90		
<i>Homo sapiens</i> ADIJ	41	--PSTAATPDRGLMQS-L--P-TFIQGP	GEAGRP	75		
<i>Pan troglodytes</i> ADIJ	41	--PSTAATPDRGLMQS-L--P-TFIQGP	GEAGRP	75		
<i>Papio hamadryas</i> ADIJ	41	--PSTAATPDRGLMQS-L--P-TFIQGP	GEAGRP	75		
<i>Mus musculus</i> Adij	41	--PSTAATPDRGLMQS-L--P-TFIQGP	GEAGRP	75		
<i>Rattus norvegicus</i> Adij	41	--PSTAATPDRGLMQS-L--P-TFIQGP	GEAGRP	75		
<i>Oryctolagus cuniculus</i> ADIJ	41	--PSTAATPDRGLMQS-L--P-TFIQGP	GEAGRP	75		
<i>Bos taurus</i> ADIJ	41	--PSTAATPDRGLMQS-L--P-TFIQGP	GEAGRP	75		
<i>Canis lupus familiaris</i> ADIJ	41	--PSTAATPDRGLMQS-L--P-TFIQGP	GEAGRP	75		
<i>Loxodonta africana</i> ADIJ	41	--PSTAATPDRGLMQS-L--P-TFIQGP	GEAGRP	75		
<i>Homo sapiens</i> ADIK	36	-----GPRGPGPDGAPASVPPFP	GPAKGEV	69		
<i>Pan troglodytes</i> ADIK	36	-----GPRGPGPDGAPASVPPFP	GPAKGEV	69		
<i>Gorilla gorilla</i> ADIK	36	-----GPRGPGPDGAPASVPPFP	GPAKGEV	69		
<i>Papio hamadryas</i> ADIK	36	-----GPRGPGPDGAPASVPPFP	GPAKGEV	69		
<i>Callithrix jacchus</i> ADIK	36	-----GPRGPGPDGAPASVPPFP	GPAKGEV	69		
<i>Rattus norvegicus</i> Adik	36	-----ASRQGS	SDGAPSSVPPFP	GPAKGEV	69	
<i>Cavia porcellus</i> ADIK	36	-----GPRGPGPDGAPASVPPFP	GPAKGEV	69		
<i>Equus caballus</i> ADIK	36	-----GPRGPGTDGAPASVPPYP	PGTKGEM	GRRGKAGLR	69	
<i>Canis lupus familiaris</i> ADIK	36	-----GPRGPGPDGAPASVPPFP	GPAKGEV	GRRGKAGLR	69	
<i>Dasyopus novemcinctus</i> ADIK	36	-----GPRGPDPEGAPASVPPFP	GPAKGET	GRRGKAGLR	69	
<i>Loxodonta africana</i> ADIK	36	-----GPRGPGPDGAPSSVPPFP	GPAKGEV	GRRGKAGLR	69	
<i>Mus musculus</i> Adil	48	GG-----DALSEQS	GAPPPSTLVQGPQ	-----GKPGRT	GKPGPP	81
<i>Rattus norvegicus</i> Adil	48	GG-----DALSEQS	GAPPPSTLVQGPQ	-----GKPGRT	GKPGPP	81
<i>Homo sapiens</i> ADIM	156	-----GDY-----	-----	-----	-----	158
<i>Pan troglodytes</i> ADIM	156	-----GDY-----	-----	-----	-----	158

<i>Pongo abelii</i> ADIM	112	----	GDY	----	114
<i>Nomascus leucogenys</i> ADIM	156	----	GDY	----	158
<i>Papio hamadryas</i> ADIM	156	----	GDY	----	158
<i>Callithrix jacchus</i> ADIM	146	----	GDY	----	148
<i>Mus musculus</i> Adim	45	----	GDY	----	47
<i>Rattus norvegicus</i> Adim	119	----	GDY	----	121
<i>Cavia porcellus</i> ADIM	112	----	GDY	----	114
<i>Bos taurus</i> ADIM	45	----	GDY	----	47
<i>Equus caballus</i> ADIM	45	----	GDY	----	47
<i>Canis lupus familiaris</i> ADIM	106	----	GEY	----	108
<i>Homo sapiens</i> ADIN	-	----		----	-
<i>Pan troglodytes</i> ADIN	-	----		----	-
<i>Pongo abelii</i> ADIN	-	----		----	-
<i>Nomascus leucogenys</i> ADIN	-	----		----	-
<i>Macaca mulatta</i> ADIN	-	----		----	-
<i>Callithrix jacchus</i> ADIN	-	----		----	-
<i>Mus musculus</i> Adin	-	----		----	-
<i>Cavia porcellus</i> ADIN	-	----		----	-
<i>Tursiops truncatus</i> ADIN	-	----		----	-
<i>Canis lupus familiaris</i> ADIN	-	----		----	-
<i>Dasyopus novemcinctus</i> ADIN	-	----		----	-
<i>Loxodonta africana</i> ADIN	-	----		----	-
<i>Homo sapiens</i> ADIO	44	DRDLWRGDLWRGLPRVRPTIDIEILK	----		69
<i>Pan troglodytes</i> ADIO	44	DRDLWRGDLWRGLPRVRPTIDIEILK	----		69
<i>Macaca mulatta</i> ADIO	44	D-----GDPWRSLPRVRPTIDIEILK	----		64
<i>Bos taurus</i> ADIO	48	D-----GDAWAGLPRLRPTIDISILK	----		68
<i>Myotis lucifugus</i> ADIO	48	E-----GEKWWQLPHVRPTIDISILK	----		68
<i>Homo sapiens</i> ADIP	188	-----PQINITILK	----		196
<i>Otolemur garnettii</i> ADIP	90	-----PQINITILK	----		98
<i>Mus musculus</i> Adip	90	-----PQINITILK	----		98
<i>Cavia porcellus</i> ADIP	90	-----PQINITILK	----		98
<i>Bos taurus</i> ADIP	113	-----PQINITILK	----		121
<i>Equus caballus</i> ADIP	88	-----PQINITILK	----		96
<i>Loxodonta africana</i> ADIP	142	-----PQINITILK	----		150
<i>Homo sapiens</i> ADIQ	73	SASS-SGRPHA-LPEIRPYINITILK	----		96
<i>Pan troglodytes</i> ADIQ	73	SASS-SGRPHA-LPEIRPYINITILK	----		96
<i>Pongo abelii</i> ADIQ	73	SASS-SGPPYA-LPEIRPYINITILK	----		96
<i>Nomascus leucogenys</i> ADIQ	73	SASS-SGPPHA-LPEIRPYINITILK	----		96
<i>Macaca mulatta</i> ADIQ	73	SASS-SGLPHA-LPEIRPYINITILK	----		96
<i>Mus musculus</i> Adiq	61	QAP---VSPYV-LPEVRPYINITILK	----		82
<i>Rattus norvegicus</i> Adiq	61	NA---VPPYV-LPEVRPYINITILK	----		81
<i>Homo sapiens</i> ADIR	-	----		----	-
<i>Pan troglodytes</i> ADIR	-	----		----	-
<i>Pongo abelii</i> ADIR	-	----		----	-
<i>Nomascus leucogenys</i> ADIR	-	----		----	-
<i>Macaca mulatta</i> ADIR	-	----		----	-
<i>Papio hamadryas</i> ADIR	-	----		----	-
<i>Callithrix jacchus</i> ADIR	-	----		----	-
<i>Tarsius syrichta</i> ADIR	-	----		----	-
<i>Otolemur garnettii</i> ADIR	-	----		----	-
<i>Tupaia belangeri</i> ADIR	-	----		----	-
<i>Mus musculus</i> Adir	-	----		----	-
<i>Rattus norvegicus</i> Adir	-	----		----	-
<i>Cavia porcellus</i> ADIR	-	----		----	-
<i>Oryctolagus cuniculus</i> ADIR	-	----		----	-
<i>Tursiops truncatus</i> ADIR	-	----		----	-
<i>Bos taurus</i> ADIR	-	----		----	-
<i>Equus caballus</i> ADIR	-	----		----	-
<i>Canis lupus familiaris</i> ADIR	-	----		----	-
<i>Myotis lucifugus</i> ADIR	-	----		----	-
<i>Pteropus vampyrus</i> ADIR	-	----		----	-
<i>Erinaceus europaeus</i> ADIR	-	----		----	-
<i>Dasyopus novemcinctus</i> ADIR	-	----		----	-
<i>Choloepus hoffmanni</i> ADIR	-	----		----	-
<i>Loxodonta africana</i> ADIR	-	----		----	-

<i>Microcebus murinus</i> ADIF1	32	GNPGHN-----GLPGRDGRDGAKGDKGDA---GEPGHPGSPGKDGASGDKGERGAD	79
<i>Otolemur garnettii</i> ADIF1	32	GNPGHN-----GLPGRDGRDGAKGDKGDA---GEPGRPGSPGKDGMRGEKQORGAD	79
<i>Mus musculus</i> Adif1	61	GNPGHN-----GLPGRDGRDGAKGDKGDA---GEPGHPGGPGKDGIRGEKGEPEGAD	108
<i>Rattus norvegicus</i> Adif1	48	GTPGHN-----GLPGRDGRDGAKGDKGDT---GEPGHPGGPGKDGIRGEKGEPEGAD	95
<i>Cavia porcellus</i> ADIF1	32	GNPGHN-----GLPGRDGRDGAKGDKGDA---GEPGRPGSPGKDGMSGEKGERGAD	79
<i>Oryctolagus cuniculus</i> ADIF1	32	GS PGHN-----GLPGRDGRDGAKGDKGDA---GEPGHPGSPGKEGRSSEKGDORGAD	79
<i>Ochotona princeps</i> ADIF1	32	GSPGHN-----GLPGRDGRDGAKGDKGDT---GEPGHPGDGKDGSRSEKGERGAD	79
<i>Bos taurus</i> ADIF1	32	GNPGHN-----GLPGRDGRDGAKGDKGDA---GEPGHPGGPGKDGMTGKKGEPEGAD	79
<i>Equus caballus</i> ADIF1	32	GNPGHN-----GLPGRDGRDGAKGDKGDA---GEPGRPGSPGKDGVNGEKGERGAD	79
<i>Canis lupus familiaris</i> ADIF1	32	GNPGHN-----GLPGRDGRDGAKGDKGEA---GEPGHPGGPGKDG MNGEKGERGAD	79
<i>Felis catus</i> ADIF1	32	GNPGHN-----GLPGRDGRDGAKGDKGEA---GEPGHPGGPGKDG MNGEKGERGAD	79
<i>Dasyopus novemcinctus</i> ADIF1	33	GNPGHN-----GLPGRDGRDGAKGDKGDA---GEPGLPGSPGKDG MKGEKGERGAD	80
<i>Loxodonta africana</i> ADIF1	32	GNPGHN-----GLPGRDGRDGAKGDKGDA---GEPGLPGSPGKDG INGEKGERGAD	79
<i>Homo sapiens</i> ADIG	98	GPPGANGSPGPHGRIGLPGRDGRDGRKGEKGEKGTAG-----	134
<i>Pan troglodytes</i> ADIG	98	GPPGANGSPGPHGRIGLPGRDGRDGRKGEKGEKGTAG-----	134
<i>Pongo abelii</i> ADIG	98	GPPGANGSPGPHGRIGLPGRDGRDGRKGEKGEKGTAG-----	134
<i>Callithrix jacchus</i> ADIG	84	GPPGANGSPGPHGRIGLPGRDGRDGRKGEKGEKGTAG-----	120
<i>Otolemur garnettii</i> ADIG	44	GPPGATGSPGPHGRIGLPGRDGRDGRKGEKGEKGAAG-----	80
<i>Mus musculus</i> Adig	86	GPPGANGSPGPHGRIGLPGRDGRDGRKGEKGEKGTAG-----	122
<i>Rattus norvegicus</i> Adig	87	GPPGANGSPGPHGRIGLPGRDGRDGRKGEKGEKGTAG-----	123
<i>Cavia porcellus</i> ADIG	44	GPPGANGSPGHHGRIGLPGRDGRDGRKGEKGEKGTAG-----	80
<i>Oryctolagus cuniculus</i> ADIG	44	GPPGANGSPGHHGRIGLPGRDGRDGRKGEKGEKGSAG-----	80
<i>Tursiops truncatus</i> ADIG	96	GPPGANGSPGPHGRIGLPGRDGRDGRKGEKGEKGAAG-----	132
<i>Bos taurus</i> ADIG	44	GPPGANGSPGPHGRIGLPGRDGRDGRKGEKGEKGAAG-----	80
<i>Equus caballus</i> ADIG	85	GPPGANGSPGPHGRIGLPGRDGRDGRKGEKGEKGAAG-----	121
<i>Canis lupus familiaris</i> ADIG	85	GPPGANGSPGPHGRIGLPGRDGRDGRKGEKGEKGAAG-----	121
<i>Myotis lucifugus</i> ADIG	44	GPPGASGSPGPHGRIGLPGRDGRDGRKGEKGEKGAAG-----	80
<i>Homo sapiens</i> ADIH	46	GPPGAPGSPGMMGRMGFPKDGQDGDGDRGDSGEEG-----	82
<i>Pan troglodytes</i> ADIH	46	GPPGAPGSPGMMGRMGFPKDGQDGDGDRGDSGEEG-----	82
<i>Pongo abelii</i> ADIH	46	GPPGAPGSPGMMGRMGFPKDGQDGDGDRGDSGEEG-----	82
<i>Nomascus leucogenys</i> ADIH	46	GPPGAPGSPGIMGRMGFPKDGQDGDGDRGDSGEEG-----	82
<i>Macaca mulatta</i> ADIH	46	GPPGAPGSPGMMGRMGFPKDGQDGDGDRGDSGEEG-----	82
<i>Papio hamadryas</i> ADIH	46	GPPGAPGSPGMMGRMGFPKDGQDGDGDRGDSGEEG-----	82
<i>Mus musculus</i> Adih	53	GPPGAPGSSGVVGRMGFPKDGQDGDGDRGDSGEEG-----	89
<i>Rattus norvegicus</i> Adih	90	GPPGAPGSSGMVGRMGFPKDGQDGDGDRGDSGEEG-----	126
<i>Dipodomys ordii</i> ADIH	46	GPPGVPGPGSTVGRMGFPKDGQDGDGDRGDSGEEG-----	82
<i>Cavia porcellus</i> ADIH	46	GPPGAPGPGSTVGRMGFPKDGQDGDGDRGDNNEEG-----	82
<i>Bos taurus</i> ADIH	63	GPPGAPGPGSMVGRMGFPGRDGDGDGDRGETGEEG-----	99
<i>Equus caballus</i> ADIH	46	GPPGAPGPGSMVGRMGFPKDGQDGDGDRGDNNEEG-----	82
<i>Canis lupus familiaris</i> ADIH	46	GPPGAPGPGSMVGRMGFPKDGQDGDGDRGDSGEEG-----	82
<i>Pteropus vampyrus</i> ADIH	46	GPPGTPLSGMVGRMGFPKDGQDGDGDRGDRGEEG-----	82
<i>Loxodonta africana</i> ADIH	46	GPPGAPGPGSMVGRMGFPKDGQDGDGDRGDNNEEG-----	82
<i>Homo sapiens</i> ADII	91	GPPGEPGPPGPRGPPGEGKDSGRPGLP-----GLQ-----	120
<i>Pongo abelii</i> ADII	91	GPPGEPGPPGPRGPPGEGKDSGRPGLP-----GLQ-----	120
<i>Macaca mulatta</i> ADII	91	GPPGEPGPPGPRGPPGEGKDSGRPGLP-----GLQ-----	120
<i>Mus musculus</i> Adii	91	GPPGEPGPPGPRGPPGEGKDSGRPGLP-----GLQ-----	120
<i>Rattus norvegicus</i> Adii	91	GPPGEPGPPGPRGPPGEGKDSGRPGLP-----GLQ-----	120
<i>Bos taurus</i> ADII	91	GPPGEPGPPGPRGPPGEGKDSGRPGLP-----GLQ-----	120
<i>Canis lupus familiaris</i> ADII	91	GPPGEPGPPGPRGPPGEGKDSGRPGLP-----GLQ-----	120
<i>Dasyopus novemcinctus</i> ADII	91	GPPGEPGPPGPRGPPGEGKDSGRPGLP-----GLQ-----	120
<i>Homo sapiens</i> ADIJ	76	GPPGEPGPPGPMGPPGEGKEPGRQGLPGPPGAPGLN-----	111
<i>Pan troglodytes</i> ADIJ	76	GPPGEPGPPGPMGPPGEGKEPGRQGLPGPPGAPGLN-----	111
<i>Papio hamadryas</i> ADIJ	76	GPPGEPGPPGPMGPPGEGKEPGRQGLPGPPGAPGLN-----	111
<i>Mus musculus</i> Adij	76	GPPGEPGPPGPMGPPGEGKEPGRQGLPGPPGAPGLN-----	111
<i>Rattus norvegicus</i> Adij	76	GPPGEPGPPGPMGPPGEGKEPGRQGLPGPPGAPGLN-----	111
<i>Oryctolagus cuniculus</i> ADIJ	76	GPPGEPGPPGPMGPPGEGKEPGRQGLPGPPGAPGLN-----	111
<i>Bos taurus</i> ADIJ	76	GPPGEPGPPGPMGPPGEGKEPGRQGLPGPPGAPGLN-----	111
<i>Canis lupus familiaris</i> ADIJ	76	GPPGEPGPPGPMGPPGEGKEPGRQGLPGPPGAPGLN-----	111
<i>Loxodonta africana</i> ADIJ	76	GPPGEPGPPGPMGPPGEGKEPGRQGLPGPPGAPGLN-----	111
<i>Homo sapiens</i> ADIK	70	GPP---GPPGPRGPP---GEPGRPGPPGPP---GPG-----	96
<i>Pan troglodytes</i> ADIK	70	GPP---GPPGPRGPP---GEPGRPGPPGPP---GPG-----	96
<i>Gorilla gorilla</i> ADIK	70	GPP---GPPGPRGPP---GEPGRPGPPGPP---GPG-----	96
<i>Papio hamadryas</i> ADIK	70	GPP---GPPGPRGPP---GEPGRPGPPGPP---GPG-----	96
<i>Callithrix jacchus</i> ADIK	70	GPP---GPPGPRGPP---GEPGRPGPPGPP---GPG-----	96
<i>Rattus norvegicus</i> Adik	70	GPP---GPPGPRGPP---GEPGRPGPPGPP---GPG-----	96
<i>Cavia porcellus</i> ADIK	70	GPP---GPPGPRGPP---GEPGRPGPPGPP---GPG-----	96
<i>Equus caballus</i> ADIK	70	GPP---GPPGPRGPP---GEPGRPGPPGPP---GPG-----	96
<i>Canis lupus familiaris</i> ADIK	70	GPP---GPPGPRGPP---GEPGRPGPPGPP---GPG-----	96
<i>Dasyopus novemcinctus</i> ADIK	70	GPP---GPPGPRGPP---GEPGRPGPPGPP---GPG-----	96
<i>Loxodonta africana</i> ADIK	70	GPP---GPPGPRGPP---GEPGRPGPPGPP---GPG-----	96
<i>Mus musculus</i> Adil	82	GPPGDRGPPGVPVGGPEKEPGRKPGPPGLPGSGGSG-----	117
<i>Rattus norvegicus</i> Adil	82	GPPGDRGPPGVPVGGPEKEPGRKPGPPGLPGSGGSG-----	117
<i>Homo sapiens</i> ADIM	159	-----SFRGYQGPPGPPGPPGIP-----G-----	177
<i>Pan troglodytes</i> ADIM	159	-----SFRGYQGPPGPPGPPGIP-----G-----	177

<i>Pongo abelii</i> ADIM	115	-----SFRGYQGGPPGPPGPPGIP-----G-----	133
<i>Nomascus leucogenys</i> ADIM	159	-----SFRGYQGGPPGPPGPPGIP-----G-----	177
<i>Papio hamadryas</i> ADIM	159	-----SFRGYQGGPPGPPGPPGIP-----G-----	177
<i>Callithrix jacchus</i> ADIM	149	-----SFRGYQGGPPGPPGPPGIP-----G-----	167
<i>Mus musculus</i> Adim	48	-----GFRGYQGGPPGPPGPPGIP-----G-----	66
<i>Rattus norvegicus</i> Adim	122	-----GFRGYQGGPPGPPGPPGIP-----G-----	140
<i>Cavia porcellus</i> ADIM	115	-----GFRGYQGGPPGPPGPPGIP-----G-----	133
<i>Bos taurus</i> ADIM	48	-----SFRGYQGGPPGPPGPPGIP-----G-----	66
<i>Equus caballus</i> ADIM	48	-----SFRGYQGGPPGPPGPPGIP-----G-----	66
<i>Canis lupus familiaris</i> ADIM	109	-----SFRGYQGGPPGPPGPPGIP-----G-----	127
<i>Homo sapiens</i> ADIN	-	-----	-
<i>Pan troglodytes</i> ADIN	-	-----	-
<i>Pongo abelii</i> ADIN	-	-----	-
<i>Nomascus leucogenys</i> ADIN	-	-----	-
<i>Macaca mulatta</i> ADIN	-	-----	-
<i>Callithrix jacchus</i> ADIN	-	-----	-
<i>Mus musculus</i> Adin	-	-----	-
<i>Cavia porcellus</i> ADIN	-	-----	-
<i>Tursiops truncatus</i> ADIN	-	-----	-
<i>Canis lupus familiaris</i> ADIN	-	-----	-
<i>Dasyopus novemcinctus</i> ADIN	-	-----	-
<i>Loxodonta africana</i> ADIN	-	-----	-
<i>Homo sapiens</i> ADIO	70	-----G-----	70
<i>Pan troglodytes</i> ADIO	70	-----G-----	70
<i>Macaca mulatta</i> ADIO	65	-----G-----	65
<i>Bos taurus</i> ADIO	69	-----G-----	69
<i>Myotis lucifugus</i> ADIO	69	-----G-----	69
<i>Homo sapiens</i> ADIP	197	-----G-----	197
<i>Otolemur garnettii</i> ADIP	99	-----G-----	99
<i>Mus musculus</i> Adip	99	-----G-----	99
<i>Cavia porcellus</i> ADIP	99	-----G-----	99
<i>Bos taurus</i> ADIP	122	-----G-----	122
<i>Equus caballus</i> ADIP	97	-----G-----	97
<i>Loxodonta africana</i> ADIP	151	-----G-----	151
<i>Homo sapiens</i> ADIQ	97	-----G-----	97
<i>Pan troglodytes</i> ADIQ	97	-----G-----	97
<i>Pongo abelii</i> ADIQ	97	-----G-----	97
<i>Nomascus leucogenys</i> ADIQ	97	-----G-----	97
<i>Macaca mulatta</i> ADIQ	97	-----G-----	97
<i>Mus musculus</i> Adiq	83	-----G-----	83
<i>Rattus norvegicus</i> Adiq	82	-----G-----	82
<i>Homo sapiens</i> ADIR	-	-----	-
<i>Pan troglodytes</i> ADIR	-	-----	-
<i>Pongo abelii</i> ADIR	-	-----	-
<i>Nomascus leucogenys</i> ADIR	-	-----	-
<i>Macaca mulatta</i> ADIR	-	-----	-
<i>Papio hamadryas</i> ADIR	-	-----	-
<i>Callithrix jacchus</i> ADIR	-	-----	-
<i>Tarsius syrichta</i> ADIR	-	-----	-
<i>Otolemur garnettii</i> ADIR	-	-----	-
<i>Tupaia belangeri</i> ADIR	-	-----	-
<i>Mus musculus</i> Adir	-	-----	-
<i>Rattus norvegicus</i> Adir	-	-----	-
<i>Cavia porcellus</i> ADIR	-	-----	-
<i>Oryctolagus cuniculus</i> ADIR	-	-----	-
<i>Tursiops truncatus</i> ADIR	-	-----	-
<i>Bos taurus</i> ADIR	-	-----	-
<i>Equus caballus</i> ADIR	-	-----	-
<i>Canis lupus familiaris</i> ADIR	-	-----	-
<i>Myotis lucifugus</i> ADIR	-	-----	-
<i>Pteropus vampyrus</i> ADIR	-	-----	-
<i>Erinaceus europaeus</i> ADIR	-	-----	-
<i>Dasyopus novemcinctus</i> ADIR	-	-----	-
<i>Choloepus hoffmanni</i> ADIR	-	-----	-
<i>Loxodonta africana</i> ADIR	-	-----	-

	370	380	390	400	410	420
<i>Homo sapiens</i> ADIA						
<i>Homo sapiens</i> ADIA						
<i>Papio hamadryas</i> ADIA						
<i>Mus musculus</i> Adia						
<i>Rattus norvegicus</i> Adia						
<i>Cavia porcellus</i> ADIA						
<i>Ochotona princeps</i> ADIA						
<i>Bos taurus</i> ADIA						
<i>Equus caballus</i> ADIA						
<i>Canis lupus familiaris</i> ADIA						
<i>Felis catus</i> ADIA						
<i>Myotis lucifugus</i> ADIA						
<i>Dasyopus novemcinctus</i> ADIA						
<i>Loxodonta africana</i> ADIA						
<i>Homo sapiens</i> ADIB						
<i>Pan troglodytes</i> ADIB						
<i>Pongo abelii</i> ADIB						
<i>Nomascus leucogenys</i> ADIB						
<i>Callithrix jacchus</i> ADIB						
<i>Otolemur garnettii</i> ADIB						
<i>Mus musculus</i> Adib						
<i>Rattus norvegicus</i> Adib						
<i>Cavia porcellus</i> ADIB						
<i>Oryctolagus cuniculus</i> ADIB						
<i>Bos taurus</i> ADIB						
<i>Equus caballus</i> ADIB						
<i>Canis lupus familiaris</i> ADIB						
<i>Myotis lucifugus</i> ADIB						
<i>Loxodonta africana</i> ADIB						
<i>Homo sapiens</i> ADIC						
<i>Macaca mulatta</i> ADIC						
<i>Papio hamadryas</i> ADIC						
<i>Callithrix jacchus</i> ADIC						
<i>Mus musculus</i> Adic						
<i>Rattus norvegicus</i> Adic						
<i>Cavia porcellus</i> ADIC						
<i>Oryctolagus cuniculus</i> ADIC						
<i>Equus caballus</i> ADIC						
<i>Canis lupus familiaris</i> ADIC						
<i>Myotis lucifugus</i> ADIC						
<i>Loxodonta africana</i> ADIC						
<i>Homo sapiens</i> ADID						
<i>Pan troglodytes</i> ADID						
<i>Pongo abelii</i> ADID						
<i>Nomascus leucogenys</i> ADID						
<i>Macaca mulatta</i> ADID						
<i>Otolemur garnettii</i> ADID						
<i>Mus musculus</i> Adid						
<i>Rattus norvegicus</i> Adid						
<i>Cavia porcellus</i> ADID						
<i>Oryctolagus cuniculus</i> ADID						
<i>Bos taurus</i> ADID						
<i>Equus caballus</i> ADID						
<i>Canis lupus familiaris</i> ADID						
<i>Felis catus</i> ADID						
<i>Myotis lucifugus</i> ADID						
<i>Dasyopus novemcinctus</i> ADID						
<i>Loxodonta africana</i> ADID						
<i>Homo sapiens</i> ADIE						
<i>Pan troglodytes</i> ADIE						
<i>Pongo abelii</i> ADIE						
<i>Papio hamadryas</i> ADIE						
<i>Callithrix jacchus</i> ADIE						
<i>Otolemur garnettii</i> ADIE						
<i>Mus musculus</i> Adie						
<i>Rattus norvegicus</i> Adie						
<i>Homo sapiens</i> ADIF1	80	GKVEAKGIKGDQGS	SRGSPGKHGPKGLAGPMGEKGLRGETG	PQQQKGNKGDVGP	TGPEGPR	139
<i>Homo sapiens</i> ADIF2	80	GKVEAKGIKGDQGS	SRGSPGKHGPKGLAGPMGEKGLRGETG	PQQQKGNKGDVGP	TGPEGPR	139
<i>Pan troglodytes</i> ADIF1	80	GKVEAKGIKGDQGS	SRGSPGKHGPKGLAGPMGEKGLQGETG	PQQQKGNKGDVGP	TGPEGPR	139
<i>Pongo abelii</i> ADIF1	80	GKVEAKGIKGDQGS	SRGSPGKHGPKGLAGPMGEKGLRGETG	PQQQKGNKGDVGP	TGPEGPR	139
<i>Nomascus leucogenys</i> ADIF1	80	GKVEAKGIKGDQGS	SRGSPGKHGPKGLAGPMGEKGLRGETG	PQQQKGNKGDVGP	TGPEGPS	139
<i>Macaca mulatta</i> ADIF1	80	GKVEAKGIKGDQGS	SRGSPGKHGPKGLAGPMGEKGLRGETG	PQQQKGNKGDVGP	TGPEGPR	139
<i>Papio hamadryas</i> ADIF1	80	GKVEAKGIKGDQGS	SRGSPGKHGPKGLAGPMGEKGLRGETG	PQQQKGNKGDVGP	TGPEGPR	139

<i>Microcebus murinus</i> ADIF1	80	GNVEAKGIKGDQGSRGPPGKHGPKGLLGPMEKGLQGETGPPQKQKGEKGDVGPPEGREGQR	139
<i>Otolemur garnettii</i> ADIF1	80	GNVEAKGIKGDQGSKGP GPKHGP KGLVGPMEKGIQGEPPGPEKGDVGLPGEGLR	139
<i>Mus musculus</i> Adif1	109	GRVEAKGIKGDPSRSGSPGKHGPKGSIGPTGEQGLPGETGPPQKQKGDVGPTEGPEGLM	168
<i>Rattus norvegicus</i> Adif1	96	GRVEAKGIKGDPSRSGSPGKHGPKGSIGPTGEQGLPGETGPPQKQKGDVGPTEGPEGLM	155
<i>Cavia porcellus</i> ADIF1	80	GKVEAKGIKGDPSRSGPPGKHGPKGSVGPTEGERLQGE MGPQKQKGDVGPTEGPEGLT	139
<i>Oryctolagus cuniculus</i> ADIF1	80	GKVEAKGIKGDQGSRGPPGKHGPKGSVGPTEGERLQGE MGPQKQKGDVGPTEGPEGLT	139
<i>Ochotona princeps</i> ADIF1	80	GKVEAKGMKGDPSRSGSPGKHGPKGSVGPTEGERLQGE MGPQKQKGEKGDVGPTEGPEGLT	139
<i>Bos taurus</i> ADIF1	80	GHVEAKGIKGDQGSRGPPGKHGPKGLVGPTEGERLQGE MGPQKQKGEKGDVGPTEGPEGLT	139
<i>Equus caballus</i> ADIF1	80	GKVEAKGVKGDQGSRGSPGKHGPKGFVGPMEKGLRGETGPPQKQKGDVGPTEGPEGLK	139
<i>Canis lupus familiaris</i> ADIF1	80	GKVEAKGIKGDQGSRGPPGKHGPKGLVGPMEKGLRGETGPPQKQKGDVGPTEGPEGLK	139
<i>Felis catus</i> ADIF1	80	GKVEAKGIKGDQGSQGP GKHGPKGFVGPMEKGLRGETGPPRGPKEKGDVGPTEGPEGLQ	139
<i>Dasyopus novemcinctus</i> ADIF1	81	GRVEAKGIKGEQGSIGPPGKHGPKGFVGPMEKGLRGETGPPQKQKGGKGEVGPTEGPEGLQ	140
<i>Loxodonta africana</i> ADIF1	80	GKVEAKGIKGEPPSRSGSPGKHGPKGFVGPMEKGLRGETGPPQKQKGSKGEVGPTEGPEGLQ	139
<i>Homo sapiens</i> ADIG	135	-----LR	136
<i>Pan troglodytes</i> ADIG	135	-----LR	136
<i>Pongo abelii</i> ADIG	135	-----LR	136
<i>Callithrix jacchus</i> ADIG	121	-----LR	122
<i>Otolemur garnettii</i> ADIG	81	-----LR	82
<i>Mus musculus</i> Adig	123	-----LK	124
<i>Rattus norvegicus</i> Adig	124	-----LK	125
<i>Cavia porcellus</i> ADIG	81	-----LR	82
<i>Oryctolagus cuniculus</i> ADIG	81	-----LR	82
<i>Tursiops truncatus</i> ADIG	133	-----LR	134
<i>Bos taurus</i> ADIG	81	-----LR	82
<i>Equus caballus</i> ADIG	122	-----LR	123
<i>Canis lupus familiaris</i> ADIG	122	-----LR	123
<i>Myotis lucifugus</i> ADIG	81	-----LR	82
<i>Homo sapiens</i> ADIH	83	-----PP	84
<i>Pan troglodytes</i> ADIH	83	-----PP	84
<i>Pongo abelii</i> ADIH	83	-----PP	84
<i>Nomascus leucogenys</i> ADIH	83	-----PP	84
<i>Macaca mulatta</i> ADIH	83	-----PP	84
<i>Papio hamadryas</i> ADIH	83	-----PP	84
<i>Mus musculus</i> Adih	90	-----PP	91
<i>Rattus norvegicus</i> Adih	127	-----PP	128
<i>Dipodomys ordii</i> ADIH	83	-----PP	84
<i>Cavia porcellus</i> ADIH	83	-----PP	84
<i>Bos taurus</i> ADIH	100	-----SP	101
<i>Equus caballus</i> ADIH	83	-----PP	84
<i>Canis lupus familiaris</i> ADIH	83	-----PP	84
<i>Pteropus vampyrus</i> ADIH	83	-----PP	84
<i>Loxodonta africana</i> ADIH	83	-----AP	84
<i>Homo sapiens</i> ADII	-	-----	-
<i>Pongo abelii</i> ADII	-	-----	-
<i>Macaca mulatta</i> ADII	-	-----	-
<i>Mus musculus</i> Adii	-	-----	-
<i>Rattus norvegicus</i> Adii	-	-----	-
<i>Bos taurus</i> ADII	-	-----	-
<i>Canis lupus familiaris</i> ADII	-	-----	-
<i>Dasyopus novemcinctus</i> ADII	-	-----	-
<i>Homo sapiens</i> ADIJ	-	-----	-
<i>Pan troglodytes</i> ADIJ	-	-----	-
<i>Papio hamadryas</i> ADIJ	-	-----	-
<i>Mus musculus</i> Adij	-	-----	-
<i>Rattus norvegicus</i> Adij	-	-----	-
<i>Oryctolagus cuniculus</i> ADIJ	-	-----	-
<i>Bos taurus</i> ADIJ	-	-----	-
<i>Canis lupus familiaris</i> ADIJ	-	-----	-
<i>Loxodonta africana</i> ADIJ	-	-----	-
<i>Homo sapiens</i> ADIK	-	-----	-
<i>Pan troglodytes</i> ADIK	-	-----	-
<i>Gorilla gorilla</i> ADIK	-	-----	-
<i>Papio hamadryas</i> ADIK	-	-----	-
<i>Callithrix jacchus</i> ADIK	-	-----	-
<i>Rattus norvegicus</i> Adik	-	-----	-
<i>Cavia porcellus</i> ADIK	-	-----	-
<i>Equus caballus</i> ADIK	-	-----	-
<i>Canis lupus familiaris</i> ADIK	-	-----	-
<i>Dasyopus novemcinctus</i> ADIK	-	-----	-
<i>Loxodonta africana</i> ADIK	-	-----	-
<i>Mus musculus</i> Adil	-	-----	-
<i>Rattus norvegicus</i> Adil	-	-----	-
<i>Homo sapiens</i> ADIM	-	-----	-
<i>Pan troglodytes</i> ADIM	-	-----	-

<i>Pongo abelii</i> ADIM	-	-----	-
<i>Nomascus leucogenys</i> ADIM	-	-----	-
<i>Papio hamadryas</i> ADIM	-	-----	-
<i>Callithrix jacchus</i> ADIM	-	-----	-
<i>Mus musculus</i> Adim	-	-----	-
<i>Rattus norvegicus</i> Adim	-	-----	-
<i>Cavia porcellus</i> ADIM	-	-----	-
<i>Bos taurus</i> ADIM	-	-----	-
<i>Equus caballus</i> ADIM	-	-----	-
<i>Canis lupus familiaris</i> ADIM	-	-----	-
<i>Homo sapiens</i> ADIN	-	-----	-
<i>Pan troglodytes</i> ADIN	-	-----	-
<i>Pongo abelii</i> ADIN	-	-----	-
<i>Nomascus leucogenys</i> ADIN	-	-----	-
<i>Macaca mulatta</i> ADIN	-	-----	-
<i>Callithrix jacchus</i> ADIN	-	-----	-
<i>Mus musculus</i> Adin	-	-----	-
<i>Cavia porcellus</i> ADIN	-	-----	-
<i>Tursiops truncatus</i> ADIN	-	-----	-
<i>Canis lupus familiaris</i> ADIN	-	-----	-
<i>Dasypus novemcinctus</i> ADIN	-	-----	-
<i>Loxodonta africana</i> ADIN	-	-----	-
<i>Homo sapiens</i> ADIO	-	-----	-
<i>Pan troglodytes</i> ADIO	-	-----	-
<i>Macaca mulatta</i> ADIO	-	-----	-
<i>Bos taurus</i> ADIO	-	-----	-
<i>Myotis lucifugus</i> ADIO	-	-----	-
<i>Homo sapiens</i> ADIP	-	-----	-
<i>Otolemur garnettii</i> ADIP	-	-----	-
<i>Mus musculus</i> Adip	-	-----	-
<i>Cavia porcellus</i> ADIP	-	-----	-
<i>Bos taurus</i> ADIP	-	-----	-
<i>Equus caballus</i> ADIP	-	-----	-
<i>Loxodonta africana</i> ADIP	-	-----	-
<i>Homo sapiens</i> ADIQ	-	-----	-
<i>Pan troglodytes</i> ADIQ	-	-----	-
<i>Pongo abelii</i> ADIQ	-	-----	-
<i>Nomascus leucogenys</i> ADIQ	-	-----	-
<i>Macaca mulatta</i> ADIQ	-	-----	-
<i>Mus musculus</i> Adiq	-	-----	-
<i>Rattus norvegicus</i> Adiq	-	-----	-
<i>Homo sapiens</i> ADIR	-	-----	-
<i>Pan troglodytes</i> ADIR	-	-----	-
<i>Pongo abelii</i> ADIR	-	-----	-
<i>Nomascus leucogenys</i> ADIR	-	-----	-
<i>Macaca mulatta</i> ADIR	-	-----	-
<i>Papio hamadryas</i> ADIR	-	-----	-
<i>Callithrix jacchus</i> ADIR	-	-----	-
<i>Tarsius syrichta</i> ADIR	-	-----	-
<i>Otolemur garnettii</i> ADIR	-	-----	-
<i>Tupaia belangeri</i> ADIR	-	-----	-
<i>Mus musculus</i> Adir	-	-----	-
<i>Rattus norvegicus</i> Adir	-	-----	-
<i>Cavia porcellus</i> ADIR	-	-----	-
<i>Oryctolagus cuniculus</i> ADIR	-	-----	-
<i>Tursiops truncatus</i> ADIR	-	-----	-
<i>Bos taurus</i> ADIR	-	-----	-
<i>Equus caballus</i> ADIR	-	-----	-
<i>Canis lupus familiaris</i> ADIR	-	-----	-
<i>Myotis lucifugus</i> ADIR	-	-----	-
<i>Pteropus vampyrus</i> ADIR	-	-----	-
<i>Erinaceus europaeus</i> ADIR	-	-----	-
<i>Dasypus novemcinctus</i> ADIR	-	-----	-
<i>Choloepus hoffmanni</i> ADIR	-	-----	-
<i>Loxodonta africana</i> ADIR	-	-----	-

Homo sapiens ADIA 64 -LPGL---AGDHGEF**FEK**CD**PI**C**NP**CK**VP**CP**MP**CP**K**CP**AP**CP**AP**CP**K**ESGDY--- 116
430 440 450 460 470 480

Homo sapiens ADIA 64 -LPGL---AGDHGEFGEKGD**PI**GN**PK**V**PK**GP**MP**GP**K**GG**AP**GA**PP**GP**K**ESGDY--- 116
Papio hamadryas ADIA 64 -LPGL---AGDHGEFGEKGD**PI**GN**PK**V**PK**GP**MP**GP**K**GG**AP**GA**PP**GP**K**ESGDY--- 116
Mus musculus Adia 91 -LPGL---AGDLGEFGEKGD**PI**GP**TP**GP**KV**GP**K**GP**VP**GP**K**TP**GP**SP**PR**GP**K**GD**SG**DY--- 143
Rattus norvegicus Adia 62 -LPGL---AGDHGELGEKGD**AG**IP**PI**GP**KV**GP**K**GP**VP**GP**K**GA**PP**GP**PR**GP**K**GD**SG**DY--- 114
Cavia porcellus ADIA 62 -SPGL---AGDHGEFGEKGD**PI**GN**PK**V**PK**GP**PI**GP**K**GA**PI**GP**GG**GP**K**ESGDY--- 114
Ochotona princeps ADIA 62 -LPGL---AGDHGEFGEKGD**PS**PN**PK**V**PK**GP**VP**GP**K**GA**PL**GP**LR**GP**K**ESGDY--- 114
Bos taurus ADIA 58 -LPGL---VSHLNENGEKGD**PF**GP**MP**GP**KV**GP**K**GP**PI**GP**K**GP**VP**GP**PP**GP**VR**GP**K**ESGDY--- 110
Equus caballus ADIA 63 -LPGL---AAHRGNFGEKGE**PI**GN**PK**V**PK**GP**AG**PK**GA**PP**GA**RG**PK**ESGDY--- 115
Canis lupus familiaris ADIA 61 -LPGL---AGDHGEFGEKGD**PI**GP**TP**GP**KV**GP**K**GP**VP**GP**K**SP**PP**GA**RG**AK**GES**DY--- 113
Felis catus ADIA 65 -LPGL---AGDHGEFGEKGD**PI**GN**PK**V**PK**GP**VP**GP**K**SP**PP**GA**RG**PK**ES**GDY--- 117
Myotis lucifugus ADIA 62 -LPGL---AGDHGEFGEKGD**PG**TP**GP**K**PK**V**PK**GP**VP**GP**K**GA**PL**GP**LR**GP**K**ESGDY--- 114
Dasypus novemcinctus ADIA 59 -LPGL---AGDHGEYGEKGD**PI**GN**PK**V**PK**GP**VP**GP**K**SP**PP**GA**RG**PK**ES**GDY--- 111
Loxodonta africana ADIA 62 -LPGL---AGDHGEFGEKGD**PG**TP**GN**PK**V**GP**K**GP**PI**GP**K**SP**GS**PA**RG**PK**ES**GDY--- 114
Homo sapiens ADIB 62 -IPAI---PGIRGPKGQKGE**PL**GP**H**PG**K**NG**PM**GP**PP**GP**MP**GP**VP**GP**MG**IP**GE**PE**EG**RY--- 114
Pan troglodytes ADIB 62 -IPAI---PGIRGPKGQKGE**PL**GP**H**PG**K**NG**PM**GP**PP**GP**MP**GP**VP**GP**MG**IP**GE**PE**EG**RY--- 114
Pongo abelii ADIB 62 -IPAI---PGIRGPKGQKGE**PL**GP**H**PG**K**NG**PM**GP**PP**GP**MP**GP**VP**GP**MG**IP**GE**PE**EG**RY--- 114
Nomascus leucogenys ADIB 63 -IPAI---PGIRGPKGQKGE**PL**GP**H**PG**K**NG**PM**GP**PP**GP**MP**GP**VP**GP**MG**IP**GE**PE**EG**RY--- 115
Callithrix jacchus ADIB 61 -IPAI---PGTRGPKGQKGE**PT**GP**H**PG**K**NG**PM**GP**PP**GP**VP**GP**PI**GP**GE**PE**EG**RY--- 113
Otolemur garnettii ADIB 60 -MPAI---PGTRGPKGKGE**PI**GP**H**PG**K**NG**PM**GP**PP**GP**VP**GP**MG**IP**GE**PE**EG**RY--- 112
Mus musculus Adib 93 -IPAV---PGTRGPKGQKGE**PM**GP**HR**G**K**NG**PR**GT**SL**GP**DP**GP**PR**GP**PE**GP**VE**GRY--- 145
Rattus norvegicus Adib 85 -IPAI---PGTRGPKGQKGE**PM**GP**HR**G**K**NG**PM**GT**SG**SP**DP**GP**PR**GP**PE**GP**VE**GRY--- 137
Cavia porcellus ADIB 109 -IPAI---PGTRGPKGKGE**PT**GP**H**PG**K**NG**PM**GA**PM**PN**GP**RR**GP**PP**MP**GE**EG**RY--- 161
Oryctolagus cuniculus ADIB 115 -IPAI---PGTRGPKGQKGE**PT**GP**H**PG**K**NG**PM**G**SS**GP**DP**GP**HR**GP**PP**GE**PE**VE**GR**Y--- 167
Bos taurus ADIB 60 -IPAA---PGTRGPKGQKGD**PG**TP**GY**PG**K**NG**PM**GT**PG**IP**GA**PT**MG**PP**GE**PE**VE**GRY--- 112
Equus caballus ADIB 80 -IPAV---PGTRGPKGQKGE**PT**GP**H**PG**K**NG**PM**GT**SG**MA**GL**PL**GL**VP**RG**PE**PE**GE**EG**RY--- 132
Canis lupus familiaris ADIB 62 -IPAI---PGTRGPKGQKGE**PT**GP**H**PG**K**NG**PM**GT**PG**IP**GV**PP**GP**PP**GE**PE**VE**GRY--- 114
Myotis lucifugus ADIB 62 -IPAI---PGTRGPKGQKGE**AG**TP**PF**GP**K**NG**PM**GA**AG**LP**GP**TP**GM**PN**GE**PE**EG**RY--- 114
Loxodonta africana ADIB 60 -IPAT---PRTRGPKGQKGE**PT**GP**H**PG**K**NG**PM**GT**SG**IP**GD**PI**QG**PP**GE**PE**EG**RY--- 112
Homo sapiens ADIC 56 -APGIR--TGIQGLKGDQGE**PG**SP**GN**PK**V**Y**GP**GS**PL**GA**RG**IP**GI**K**GT**K**GS**PG**NI**--- 109
Macaca mulatta ADIC 56 -APGIR--TGIQGLKGDQGE**PG**SP**GN**PK**V**Y**GP**GS**PL**GD**RG**IP**GI**K**GI**K**GN**PG**NI**--- 109
Papio hamadryas ADIC 56 -APGIR--TGIQGLKGDQGE**PG**SP**GN**PK**V**Y**GP**GS**PL**GD**RG**IP**GI**K**GI**K**GN**PG**NI**--- 109
Callithrix jacchus ADIC 56 -APGIR--TGIQGLKGDQGE**PG**SP**GN**PK**V**Y**GP**GS**PL**GP**I**H**GM**PI**K**GI**K**GN**PG**NI--- 109
Mus musculus Adic 56 -AAGIR--TGIRGFKGD**PG**ES**GP**PK**PN**V**GL**PG**SP**GL**GD**SG**P**Q**L**K**V**K**GN**PG**NI**--- 109
Rattus norvegicus Adic 68 -AAGIR--TGIRGLKGD**MG**ES**GP**PK**PN**V**GF**PG**TP**LG**NS**GP**Q**L**K**V**K**GN**PG**NI--- 121
Cavia porcellus ADIC 55 -APGIR--TGIRGLKGDQGE**PG**SP**GN**PK**V**Y**GP**GS**PL**GP**Q**AS**GR**GM**K**GN**PG**NI--- 108
Oryctolagus cuniculus ADIC 97 -APGMR--TGIRGLKGD**PE**PG**PP**GP**SP**GN**PK**V**Y**FP**GS**PL**GD**RG**IP**GI**K**GN**PG**NI--- 150
Equus caballus ADIC 89 -APGIQ--TGIRGLKGDQGE**PG**VP**GS**PN**MY**Y**GP**GS**PL**GP**VP**GA**PL**K**GI**K**GN**PG**NL**--- 142
Canis lupus familiaris ADIC 75 -APGMR--TGIRGLKGDQ**DP**GP**PN**PN**GM**F**PG**SP**LM**LP**GI**PR**RG**PK**GN**PG**NI**--- 128
Myotis lucifugus ADIC 56 -APGIR--TGIRGLKGDQGE**PP**GP**PI**GN**MY**Y**GP**GS**PL**GN**PA**GL**K**GI**K**GN**PG**NI--- 109
Loxodonta africana ADIC 71 -AAGIR--TGIQGLKGDQ**DP**GP**PK**SG**KM**F**PG**SP**GT**GIS**PP**GL**K**GL**K**GN**PG**NI--- 124
Homo sapiens ADID 104 -----LIGPKGDI**GET**GV**PA**EG**PR**GF**PI**Q**R**K**GE**P---GEG--- 138
Pan troglodytes ADID 104 -----LIGPKGDI**GET**GV**PA**EG**PR**GF**PI**Q**R**K**GE**P---GEG--- 138
Pongo abelii ADID 73 -----LIGPKGDI**GET**GV**PA**EG**PR**GF**PI**Q**R**K**GE**P---GEG--- 107
Nomascus leucogenys ADID 103 -----LIGPKGDI**GET**GV**PA**EG**PR**GF**PI**Q**R**K**GE**P---GEG--- 137
Macaca mulatta ADID 102 -----LIGPKGDI**GET**GV**TA**EG**PR**GF**PI**Q**R**K**GE**P---GEG--- 136
Otolemur garnettii ADID 73 -----LIGPKGDI**GET**GV**TA**EG**PR**GF**PI**Q**R**K**GE**P---GEG--- 107
Mus musculus Adid 87 -----LLGPKG**TD**V**GMT**GA**EG**PR**GF**PT**PR**K**GE**P---GEA--- 121
Rattus norvegicus Adid 73 -----VLGPKG**DP**DA**GMT**GA**EG**PR**GF**PT**PR**K**GE**P---GEA--- 107
Cavia porcellus ADID 115 -----FVGPKG**DT**GET**GV**TA**EG**PR**GF**VP**PR**K**GER**---GQD--- 149
Oryctolagus cuniculus ADID 83 -----LVGPKG**DT**GET**GV**TA**EG**PR**GF**PS**PR**K**GE**P---GEG--- 117
Bos taurus ADID 68 -----LVGPKG**DT**GET**GI**TI**EG**PR**GF**PT**PR**K**GE**P---GES--- 102
Equus caballus ADID 130 -----LVGPKG**D**AG**ET**GV**VE**PR**GF**PI**PR**K**GE**P---GES--- 164
Canis lupus familiaris ADID 82 -----LVGPKG**DT**GET**GV**TA**EG**PR**GF**PT**PR**K**GE**P---GES--- 116
Felis catus ADID 73 -----LVGPKG**DT**GET**GV**TA**EG**PR**GF**PI**PR**K**GE**P---GES--- 107
Myotis lucifugus ADID 82 -----LVGPKG**DT**GET**GV**TA**EG**PR**GF**VP**Q**R**K**GE**P**---GES--- 116
Dasypus novemcinctus ADID 72 -----LLGPKG**DS**GE**IG**V**SG**VE**PR**GF**PI**Q**R**K**GE**P---GES--- 106
Loxodonta africana ADID 73 -----LIGPKG**DT**GET**GV**TA**EG**PR**GF**PT**PR**K**GE**P---GEA--- 107
Homo sapiens ADIE 73 -----LPGRGD**PG**PR**GE**AG**PAG**PT**GP**AGE**C**--- 98
Pan troglodytes ADIE 73 -----LPGRGD**PG**PR**GE**AG**PAG**PT**GP**AGE**C**--- 98
Pongo abelii ADIE 73 -----LPGRGE**PP**PR**GE**AG**PAG**PT**GP**AGE**C**--- 98
Papio hamadryas ADIE 73 -----LPGRGE**PP**PR**GE**AG**PAG**PT**GP**AGE**C**--- 98
Callithrix jacchus ADIE 73 -----LPGRGE**PP**PR**GE**AG**PAG**PT**GP**AGE**C**--- 98
Otolemur garnettii ADIE 73 -----LPGRGE**PP**PR**GE**AG**PAG**AT**GP**AGE**C**--- 98
Mus musculus Adie 73 -----LPGRGE**PP**PR**GE**AG**PM**AI**GP**AGE**C**--- 98
Rattus norvegicus Adie 73 -----LPGRGE**PP**PR**GE**AG**VP**AI**GP**AGE**C**--- 98
Homo sapiens ADIF1 140 GNIGPLG**PT**GL**PG**MP**IG**K**PK**GP**K**GE**AG**PT**GP**Q**GE**PG**VR**IR**GW**K**DR**GE**K**GI**ET**--- 196
Homo sapiens ADIF2 140 GNIGPLG**PT**GL**PG**MP**IG**K**PK**GP**K**GE**AG**PT**GP**Q**GE**PG**VR**IR**GW**K**DR**GE**K**GI**ET**--- 196
Pan troglodytes ADIF1 140 GNIGPLG**P**AG**L**GL**PG**MP**IG**K**PK**GP**K**GE**AG**PT**GP**Q**GE**PG**VR**IR**GW**K**DR**GE**K**GI**ET**--- 196
Pongo abelii ADIF1 140 GNIGPLG**PT**GL**PG**MP**IG**K**PK**GP**K**GE**AG**PM**P**Q**GE**PG**VR**IR**GW**K**DR**GE**K**GI**ET**--- 196
Nomascus leucogenys ADIF1 140 GNIGPLG**PT**GL**PG**MP**IG**TP**PK**GE**AG**PM**P**Q**GE**PG**VR**IR**GW**K**DR**GE**K**GI**ET**--- 196
Macaca mulatta ADIF1 140 GDIGPLG**PT**GL**PS**MP**IG**K**PK**GP**K**GE**AG**PM**P**Q**GE**PG**VR**IR**GW**K**DR**GE**K**GI**ET**--- 196
Papio hamadryas ADIF1 140 GDIGPLG**PT**GL**PS**MP**IG**K**PK**GP**K**GE**AG**PM**P**Q**GE**PG**VR**IR**GW**K**DR**GE**K**GI**ET**--- 196

<i>Microcebus murinus</i> ADIF1	140	GHTGPLGPTGLPGVPGPIGKPGPKGEAGPVGPQGEPEGVRGIRGWKDRGEKGI	196
<i>Otolemur garnettii</i> ADIF1	140	GNTGPGSPTGVPVPGVPGKPKGLKGEAGPVGPQGEPEGVRGLRGWKDRGEKGI	196
<i>Mus musculus</i> Adif1	169	GSTGPLGPKLPGPMGPIGKPGPRGEAGPMGPQGEPEGVRGMRGWKDRGEKGV	225
<i>Rattus norvegicus</i> Adif1	156	GSTGPLGPKLPGVPGPIGKPGPRGEAGPMGPQGEPEGVRGMRGWKDRGEKGV	212
<i>Cavia porcellus</i> ADIF1	140	GSTGPLGPTGLTGPMPGPIGKPGPKGEAGPIGPQGEPEGVRGIRGWKDRGEKGI	196
<i>Oryctolagus cuniculus</i> ADIF1	140	GDPGPLGPNLPGVPGPIGKPGPKGEAGPVGPQGEPEGVRGIRGWKDRGEKGI	196
<i>Ochotona princeps</i> ADIF1	140	GDPGPAAGMGLRGPVPGI	196
<i>Bos taurus</i> ADIF1	140	GSTGPGSPTGLLGPVPGPIGKPGPKGDAGPLGPQGEPEGVRGPRGWKDRGEKGI	196
<i>Equus caballus</i> ADIF1	140	GNTGLSGPPGLPGPIGPIGKPGPKGDAGPLGPQGEPEGVRGMRGWKDRGEKGI	196
<i>Canis lupus familiaris</i> ADIF1	140	GSTGPGSPTGLRGPVPGPIGKPGPKGDAGPLGPQGEPEGVRGMRGWKDRGEKGI	196
<i>Felis catus</i> ADIF1	140	GHTGPGSPTGLPGMPVPGKPGPKGDAGPLGPQGEPEGVRGMRGWKDRGEKGI	196
<i>Dasyopus novemcinctus</i> ADIF1	141	GNAGPSGPMGPPGVPVPGI	197
<i>Loxodonta africana</i> ADIF1	140	GNTGPLGTTGLRGPVPGPIGKPGPKGDAGPIGPQGEPEGVRGMRGWKDRGEKGI	196
<i>Homo sapiens</i> ADIG	137	GKTGPLGLAGEKGDQGETGKKGPIGPEGEKGEVGPVGGPKGDRGEQDGLPGVC	193
<i>Pan troglodytes</i> ADIG	137	GKTGPLGLAGEKGDQGETGKKGPIGPEGEKGEVGPVGGPKGDRGEQDGLPGVC	193
<i>Pongo abelii</i> ADIG	137	GKTGPLGLAGEKGDQGETGKKGPMGPEGEKGEVGPVGGPKGDRGEQDGLPGVC	193
<i>Callithrix jacchus</i> ADIG	123	GKTGPLGLAGEKGDQGETGKKGPMGPEGEKGEVGPVGGPKGDRGEQDGLPGVC	179
<i>Otolemur garnettii</i> ADIG	83	GKTGPGVGLAGEKGDQGETGKKGPMGPEGEKGEVGPVGGPKGDRGEQDGLPGVC	139
<i>Mus musculus</i> Adig	125	GKTGPLGLAGEKGDQGETGKKGPIGPEGEKGEVGPVGGPKGDRGEQDGLPGVC	181
<i>Rattus norvegicus</i> Adig	126	GKTGPLGLAGEKGDQGETGKKGPIGPEGEKGEVGPVGGPKGDRGEQDGLPGVC	182
<i>Cavia porcellus</i> ADIG	83	GKTGPLGLAGEKGDQGETGKKGPIGPEGEKGEVGPVGGPKGDRGEQDGLPGVC	139
<i>Oryctolagus cuniculus</i> ADIG	83	GKTGPLGLAGEKGDQGETGKKGPMGPEGEKGEVGPVGGPKGDRGEQDGLPGVC	139
<i>Tursiops truncatus</i> ADIG	135	GKTGPLGLAGEKGDQGETGKKGPMGPEGEKGEVGPVGGPKGDRGEQDGLPGVC	191
<i>Bos taurus</i> ADIG	83	GKAGPLGLAGEKGDQGETGKKGPMGPEGEKGEVGPVGGPKGDRGEQDGLPGVC	139
<i>Equus caballus</i> ADIG	124	GKTGPLGLAGEKGDQGETGKKGPMGPEGEKGEVGPVGGPKGDRGEQDGLPGVC	180
<i>Canis lupus familiaris</i> ADIG	124	GKTGPLGLAGEKGDQGETGKKGPMGPEGEKGEVGPVGGPKGDRGEQDGLPGVC	180
<i>Myotis lucifugus</i> ADIG	83	GKTGPLGLAGEKGDQGETGKKGPMGPEGEKGEVGPVGGPKGDRGEQDGLPGVC	139
<i>Homo sapiens</i> ADIH	85	GRTGNRGKPKGKAGAI	141
<i>Pan troglodytes</i> ADIH	85	GRTGNRGKPKGKAGAI	141
<i>Pongo abelii</i> ADIH	85	GRTGNRGKPKGKAGAI	141
<i>Nomascus leucogenys</i> ADIH	85	GRTGNRGKPKGKAGAI	141
<i>Macaca mulatta</i> ADIH	85	GRTGNRGKPKGKAGAI	141
<i>Papio hamadryas</i> ADIH	85	GRTGNRGKPKGKAGAI	141
<i>Mus musculus</i> Adih	92	GRTGNRGKPKGKAGAI	148
<i>Rattus norvegicus</i> Adih	129	GRTGNRGKPKGKAGAI	185
<i>Dipodomys ordii</i> ADIH	85	GRTGNRGKPKGKAGAI	141
<i>Cavia porcellus</i> ADIH	85	GRTGNRGKPKGKAGAI	141
<i>Bos taurus</i> ADIH	102	GRTGNRGKPKGKAGAI	158
<i>Equus caballus</i> ADIH	85	GRTGNRGKPKGKAGAI	141
<i>Canis lupus familiaris</i> ADIH	85	GRTGNRGKPKGKAGAI	141
<i>Pteropus vampyrus</i> ADIH	85	GRTGNRGKPKGKAGAI	141
<i>Loxodonta africana</i> ADIH	85	GRAGNRGKPKGKAGAI	141
<i>Homo sapiens</i> ADII	-	-----	-
<i>Pongo abelii</i> ADII	-	-----	-
<i>Macaca mulatta</i> ADII	-	-----	-
<i>Mus musculus</i> Adii	-	-----	-
<i>Rattus norvegicus</i> Adii	-	-----	-
<i>Bos taurus</i> ADII	-	-----	-
<i>Canis lupus familiaris</i> ADII	-	-----	-
<i>Dasyopus novemcinctus</i> ADII	-	-----	-
<i>Homo sapiens</i> ADIJ	-	-----	-
<i>Pan troglodytes</i> ADIJ	-	-----	-
<i>Papio hamadryas</i> ADIJ	-	-----	-
<i>Mus musculus</i> Adij	-	-----	-
<i>Rattus norvegicus</i> Adij	-	-----	-
<i>Oryctolagus cuniculus</i> ADIJ	-	-----	-
<i>Bos taurus</i> ADIJ	-	-----	-
<i>Canis lupus familiaris</i> ADIJ	-	-----	-
<i>Loxodonta africana</i> ADIJ	-	-----	-
<i>Homo sapiens</i> ADIK	-	-----	-
<i>Pan troglodytes</i> ADIK	-	-----	-
<i>Gorilla gorilla</i> ADIK	-	-----	-
<i>Papio hamadryas</i> ADIK	-	-----	-
<i>Callithrix jacchus</i> ADIK	-	-----	-
<i>Rattus norvegicus</i> Adik	-	-----	-
<i>Cavia porcellus</i> ADIK	-	-----	-
<i>Equus caballus</i> ADIK	-	-----	-
<i>Canis lupus familiaris</i> ADIK	-	-----	-
<i>Dasyopus novemcinctus</i> ADIK	-	-----	-
<i>Loxodonta africana</i> ADIK	-	-----	-
<i>Mus musculus</i> Adil	-	-----	-
<i>Rattus norvegicus</i> Adil	-	-----	-
<i>Homo sapiens</i> ADIM	178	-----NHGNNNGNNGATGHEGAKGEKGDKGLGPRGERGQHGPKEKGYPGIP	224
<i>Pan troglodytes</i> ADIM	178	-----NHGNNNGNNGATGHEGAKGEKGDKGLGPRGERGQHGPKEKGYPGIP	224

<i>Pongo abelii</i> ADIM	134	-----NHGNNNGNNGATGHEGAKGEKGDKGDLDLPRGERGQHGPKEKGYPGIP---	180
<i>Nomascus leucogenys</i> ADIM	178	-----NHGNNNGNNGATGHEGAKGEKGDKGDLDLPRGERGQHGPKEKGYPGIP---	224
<i>Papio hamadryas</i> ADIM	178	-----NHGNNNGNNGATGHEGAKGEKGDKGDLDLPRGERGQHGPKEKGYPGIP---	224
<i>Callithrix jacchus</i> ADIM	168	-----NHGNNNGNNGATGHEGAKGEKGDKGDLDLPRGERGQHGPKEKGYPGIP---	214
<i>Mus musculus</i> Adim	67	-----NHGNNNGNNGATGHEGAKGEKGDKGDLDLPRGERGQHGPKEKGYPGVP---	113
<i>Rattus norvegicus</i> Adim	141	-----NHGNNNGNNGATGHEGAKGEKGDKGDLDLPRGERGQHGPKEKGYPGVP---	187
<i>Cavia porcellus</i> ADIM	134	-----NHGNNNGNNGATGHEGAKGEKGDKGDLDLPRGERGQHGPKEKGSFGIP---	180
<i>Bos taurus</i> ADIM	67	-----NHGNNNGNNGATGHEGAKGEKGDKGDLDLPRGERGQHGPKEKGYPGIP---	113
<i>Equus caballus</i> ADIM	67	-----NHGNNNGNNGATGHEGAKGEKGDKGDLDLPRGERGQHGPKEKGHPPGIP---	113
<i>Canis lupus familiaris</i> ADIM	128	-----NHGNNNGNNGATGHEGAKGEKGDKGDLDLPRGERGQHGPKEKGYPGIP---	174
<i>Homo sapiens</i> ADIN	17	-----LGP	19
<i>Pan troglodytes</i> ADIN	17	-----LGP	19
<i>Pongo abelii</i> ADIN	17	-----LGP	19
<i>Nomascus leucogenys</i> ADIN	17	-----LGP	19
<i>Macaca mulatta</i> ADIN	17	-----LGP	19
<i>Callithrix jacchus</i> ADIN	17	-----LGP	19
<i>Mus musculus</i> Adin	17	-----LGP	19
<i>Cavia porcellus</i> ADIN	28	-----LGP	30
<i>Tursiops truncatus</i> ADIN	17	-----LGP	19
<i>Canis lupus familiaris</i> ADIN	17	-----LGP	19
<i>Dasybus novemcinctus</i> ADIN	17	-----LGA	19
<i>Loxodonta africana</i> ADIN	17	-----LGP	19
<i>Homo sapiens</i> ADIO	71	-----EKGEAGVRGRAGRSKKEGPPGARGLQGRKQKQGVPPGAA---	111
<i>Pan troglodytes</i> ADIO	71	-----EKGEAGVRGRAGRSKKEGLPGARGLQGRKQKQGVPPGAA---	111
<i>Macaca mulatta</i> ADIO	66	-----EKGEAGVRGRAGRSKKEGPPGARGLQGRKQKQGVPPGAP---	106
<i>Bos taurus</i> ADIO	70	-----EKGEAGVRGRSRSRSKKEGPPSRLRGRKQKQAGLPGAQ---	110
<i>Myotis lucifugus</i> ADIO	70	-----EKGETGVRGRSRSRSKKEGPPSPGLRHKQKQGVGLPGTP---	110
<i>Homo sapiens</i> ADIP	198	-----EKGDRGDRGLQGGKYGKTGSAGARGHTGPKQKGSMPAGER---	238
<i>Otolemur garnettii</i> ADIP	100	-----EKGDRGDRGLQGGKYGKTGSAGARGHVGPQKQKGSMPGDR---	140
<i>Mus musculus</i> Adip	100	-----EKGDRGDRGLQGGKYGKTGSAGARGHVGPQKQKGSMPGDR---	140
<i>Cavia porcellus</i> ADIP	100	-----EKGDRGDRGLQGGKYGKTGSVARGHIGPKQKQKGSMPGDR---	140
<i>Bos taurus</i> ADIP	123	-----EKGDRGDRGLQGGKYGKTGSVARGHTGPKQKQKGSMPGDR---	163
<i>Equus caballus</i> ADIP	98	-----EKGDRGDRGLQGGKYGKPGSVARGHVGPQKQKGSMPGDR---	138
<i>Loxodonta africana</i> ADIP	152	-----EKGDRGDRGLQGGKYGKTGSVARGHMGPKQKQKGSMPGDR---	192
<i>Homo sapiens</i> ADIQ	98	-----DKGDPGPMGLPGYMGREGPQGEPPGQGSKDKGEMGSPGAP---	138
<i>Pan troglodytes</i> ADIQ	98	-----DKGDPGPMGLPGYMGREGPQGEPPGQGSKDKGEMGSPGAP---	138
<i>Pongo abelii</i> ADIQ	98	-----DKGDPGPMGLPGYMGREGPQGEPPGQGSKDKGEMGSPGAP---	138
<i>Nomascus leucogenys</i> ADIQ	98	-----DKGDPGPMGLPGYMGREGPQGEPPGQGSKDKGEMGSPGAP---	138
<i>Macaca mulatta</i> ADIQ	98	-----DKGDPGAMGLPGHMGREGPQGEPPGQGSKDKGEMGSPSAP---	138
<i>Mus musculus</i> Adiq	84	-----DKGDRGPTGTPGKPKNGNTRDRGSQGVKDKGQAGSPGSS---	124
<i>Rattus norvegicus</i> Adiq	83	-----DKGDRGPSGTGPKPKNGNTRDRGSQGIKDKGQAGSPGSS---	123
<i>Homo sapiens</i> ADIR	-	-----	-
<i>Pan troglodytes</i> ADIR	-	-----	-
<i>Pongo abelii</i> ADIR	-	-----	-
<i>Nomascus leucogenys</i> ADIR	-	-----	-
<i>Macaca mulatta</i> ADIR	-	-----	-
<i>Papio hamadryas</i> ADIR	-	-----	-
<i>Callithrix jacchus</i> ADIR	-	-----	-
<i>Tarsius syrichta</i> ADIR	-	-----	-
<i>Otolemur garnettii</i> ADIR	-	-----	-
<i>Tupaia belangeri</i> ADIR	-	-----	-
<i>Mus musculus</i> Adir	-	-----	-
<i>Rattus norvegicus</i> Adir	-	-----	-
<i>Cavia porcellus</i> ADIR	-	-----	-
<i>Oryctolagus cuniculus</i> ADIR	-	-----	-
<i>Tursiops truncatus</i> ADIR	-	-----	-
<i>Bos taurus</i> ADIR	-	-----	-
<i>Equus caballus</i> ADIR	-	-----	-
<i>Canis lupus familiaris</i> ADIR	-	-----	-
<i>Myotis lucifugus</i> ADIR	-	-----	-
<i>Pteropus vampyrus</i> ADIR	-	-----	-
<i>Erinaceus europaeus</i> ADIR	-	-----	-
<i>Dasybus novemcinctus</i> ADIR	-	-----	-
<i>Choloepus hoffmanni</i> ADIR	-	-----	-
<i>Loxodonta africana</i> ADIR	-	-----	-

	490	500	510	520	530	540
<i>Homo sapiens</i> ADIA						
<i>Homo sapiens</i> ADIA						
<i>Papio hamadryas</i> ADIA						
<i>Mus musculus</i> Adia						
<i>Rattus norvegicus</i> Adia						
<i>Cavia porcellus</i> ADIA						
<i>Ochotona princeps</i> ADIA						
<i>Bos taurus</i> ADIA						
<i>Equus caballus</i> ADIA						
<i>Canis lupus familiaris</i> ADIA						
<i>Felis catus</i> ADIA						
<i>Myotis lucifugus</i> ADIA						
<i>Dasyopus novemcinctus</i> ADIA						
<i>Loxodonta africana</i> ADIA						
<i>Homo sapiens</i> ADIB						
<i>Pan troglodytes</i> ADIB						
<i>Pongo abelii</i> ADIB						
<i>Nomascus leucogenys</i> ADIB						
<i>Callithrix jacchus</i> ADIB						
<i>Otolemur garnettii</i> ADIB						
<i>Mus musculus</i> Adib						
<i>Rattus norvegicus</i> Adib						
<i>Cavia porcellus</i> ADIB						
<i>Oryctolagus cuniculus</i> ADIB						
<i>Bos taurus</i> ADIB						
<i>Equus caballus</i> ADIB						
<i>Canis lupus familiaris</i> ADIB						
<i>Myotis lucifugus</i> ADIB						
<i>Loxodonta africana</i> ADIB						
<i>Homo sapiens</i> ADIC						
<i>Macaca mulatta</i> ADIC						
<i>Papio hamadryas</i> ADIC						
<i>Callithrix jacchus</i> ADIC						
<i>Mus musculus</i> Adic						
<i>Rattus norvegicus</i> Adic						
<i>Cavia porcellus</i> ADIC						
<i>Oryctolagus cuniculus</i> ADIC						
<i>Equus caballus</i> ADIC						
<i>Canis lupus familiaris</i> ADIC						
<i>Myotis lucifugus</i> ADIC						
<i>Loxodonta africana</i> ADIC						
<i>Homo sapiens</i> ADID						
<i>Pan troglodytes</i> ADID						
<i>Pongo abelii</i> ADID						
<i>Nomascus leucogenys</i> ADID						
<i>Macaca mulatta</i> ADID						
<i>Otolemur garnettii</i> ADID						
<i>Mus musculus</i> Adid						
<i>Rattus norvegicus</i> Adid						
<i>Cavia porcellus</i> ADID						
<i>Oryctolagus cuniculus</i> ADID						
<i>Bos taurus</i> ADID						
<i>Equus caballus</i> ADID						
<i>Canis lupus familiaris</i> ADID						
<i>Felis catus</i> ADID						
<i>Myotis lucifugus</i> ADID						
<i>Dasyopus novemcinctus</i> ADID						
<i>Loxodonta africana</i> ADID						
<i>Homo sapiens</i> ADIE						
<i>Pan troglodytes</i> ADIE						
<i>Pongo abelii</i> ADIE						
<i>Papio hamadryas</i> ADIE						
<i>Callithrix jacchus</i> ADIE						
<i>Otolemur garnettii</i> ADIE						
<i>Mus musculus</i> Adie						
<i>Rattus norvegicus</i> Adie						
<i>Homo sapiens</i> ADIF1						
<i>Homo sapiens</i> ADIF2						
<i>Pan troglodytes</i> ADIF1						
<i>Pongo abelii</i> ADIF1						
<i>Nomascus leucogenys</i> ADIF1						
<i>Macaca mulatta</i> ADIF1						
<i>Papio hamadryas</i> ADIF1						

<i>Microcebus murinus</i> ADIF1	-	-----	-
<i>Otolemur garnettii</i> ADIF1	-	-----	-
<i>Mus musculus</i> Adif1	-	-----	-
<i>Rattus norvegicus</i> Adif1	-	-----	-
<i>Cavia porcellus</i> ADIF1	-	-----	-
<i>Oryctolagus cuniculus</i> ADIF1	-	-----	-
<i>Ochotona princeps</i> ADIF1	-	-----	-
<i>Bos taurus</i> ADIF1	-	-----	-
<i>Equus caballus</i> ADIF1	-	-----	-
<i>Canis lupus familiaris</i> ADIF1	-	-----	-
<i>Felis catus</i> ADIF1	-	-----	-
<i>Dasyopus novemcinctus</i> ADIF1	-	-----	-
<i>Loxodonta africana</i> ADIF1	-	-----	-
<i>Homo sapiens</i> ADIG	-	-----	-
<i>Pan troglodytes</i> ADIG	-	-----	-
<i>Pongo abelii</i> ADIG	-	-----	-
<i>Callithrix jacchus</i> ADIG	-	-----	-
<i>Otolemur garnettii</i> ADIG	-	-----	-
<i>Mus musculus</i> Adig	-	-----	-
<i>Rattus norvegicus</i> Adig	-	-----	-
<i>Cavia porcellus</i> ADIG	-	-----	-
<i>Oryctolagus cuniculus</i> ADIG	-	-----	-
<i>Tursiops truncatus</i> ADIG	-	-----	-
<i>Bos taurus</i> ADIG	-	-----	-
<i>Equus caballus</i> ADIG	-	-----	-
<i>Canis lupus familiaris</i> ADIG	-	-----	-
<i>Myotis lucifugus</i> ADIG	-	-----	-
<i>Homo sapiens</i> ADIH	-	-----	-
<i>Pan troglodytes</i> ADIH	-	-----	-
<i>Pongo abelii</i> ADIH	-	-----	-
<i>Nomascus leucogenys</i> ADIH	-	-----	-
<i>Macaca mulatta</i> ADIH	-	-----	-
<i>Papio hamadryas</i> ADIH	-	-----	-
<i>Mus musculus</i> Adih	-	-----	-
<i>Rattus norvegicus</i> Adih	-	-----	-
<i>Dipodomys ordii</i> ADIH	-	-----	-
<i>Cavia porcellus</i> ADIH	-	-----	-
<i>Bos taurus</i> ADIH	-	-----	-
<i>Equus caballus</i> ADIH	-	-----	-
<i>Canis lupus familiaris</i> ADIH	-	-----	-
<i>Pteropus vampyrus</i> ADIH	-	-----	-
<i>Loxodonta africana</i> ADIH	-	-----	-
<i>Homo sapiens</i> ADII	-	-----	-
<i>Pongo abelii</i> ADII	-	-----	-
<i>Macaca mulatta</i> ADII	-	-----	-
<i>Mus musculus</i> Adii	-	-----	-
<i>Rattus norvegicus</i> Adii	-	-----	-
<i>Bos taurus</i> ADII	-	-----	-
<i>Canis lupus familiaris</i> ADII	-	-----	-
<i>Dasyopus novemcinctus</i> ADII	-	-----	-
<i>Homo sapiens</i> ADIJ	-	-----	-
<i>Pan troglodytes</i> ADIJ	-	-----	-
<i>Papio hamadryas</i> ADIJ	-	-----	-
<i>Mus musculus</i> Adij	-	-----	-
<i>Rattus norvegicus</i> Adij	-	-----	-
<i>Oryctolagus cuniculus</i> ADIJ	-	-----	-
<i>Bos taurus</i> ADIJ	-	-----	-
<i>Canis lupus familiaris</i> ADIJ	-	-----	-
<i>Loxodonta africana</i> ADIJ	-	-----	-
<i>Homo sapiens</i> ADIK	-	-----	-
<i>Pan troglodytes</i> ADIK	-	-----	-
<i>Gorilla gorilla</i> ADIK	-	-----	-
<i>Papio hamadryas</i> ADIK	-	-----	-
<i>Callithrix jacchus</i> ADIK	-	-----	-
<i>Rattus norvegicus</i> Adik	-	-----	-
<i>Cavia porcellus</i> ADIK	-	-----	-
<i>Equus caballus</i> ADIK	-	-----	-
<i>Canis lupus familiaris</i> ADIK	-	-----	-
<i>Dasyopus novemcinctus</i> ADIK	-	-----	-
<i>Loxodonta africana</i> ADIK	-	-----	-
<i>Mus musculus</i> Adil	-	-----	-
<i>Rattus norvegicus</i> Adil	-	-----	-
<i>Homo sapiens</i> ADIM	-	-----	-
<i>Pan troglodytes</i> ADIM	-	-----	-

<i>Pongo abelii</i> ADIM	-	-----	-
<i>Nomascus leucogenys</i> ADIM	-	-----	-
<i>Papio hamadryas</i> ADIM	-	-----	-
<i>Callithrix jacchus</i> ADIM	-	-----	-
<i>Mus musculus</i> Adim	-	-----	-
<i>Rattus norvegicus</i> Adim	-	-----	-
<i>Cavia porcellus</i> ADIM	-	-----	-
<i>Bos taurus</i> ADIM	-	-----	-
<i>Equus caballus</i> ADIM	-	-----	-
<i>Canis lupus familiaris</i> ADIM	-	-----	-
<i>Homo sapiens</i> ADIN	20	TPGPGSSELRSAFSAARTTPLEGTSEMAVTFDKVYVNI	79
<i>Pan troglodytes</i> ADIN	20	TPGPGSSELRSAFSAARTTPLEGTSEMAVTFDKVYVNI	79
<i>Pongo abelii</i> ADIN	20	APGPGSSELRSAFSAARTTPLEGTSEMAVTFDKVYVNI	79
<i>Nomascus leucogenys</i> ADIN	20	ALGPGSSELRSAFSAARTTPLEGTSEMAVTFDKVYVNI	79
<i>Macaca mulatta</i> ADIN	20	APGPGSSELRSAFSAARTTPLEGASEMAVTFDKVYVNI	79
<i>Callithrix jacchus</i> ADIN	20	APGPGSSELRSAFSAARTTPLEGTSEMAVTFDKVYVNI	79
<i>Mus musculus</i> Adin	20	A-GPGSSELRSAFSAARTTPLEGTSEMAVTFDKVYVNI	78
<i>Cavia porcellus</i> ADIN	31	APGPDSTGLRSAFSAVRTTPLEGTSEMAVTFDKVLVNI	90
<i>Tursiops truncatus</i> ADIN	20	ALG--STELRSAFSAARITPLEGTSEMAVTFDKVYVNI	77
<i>Canis lupus familiaris</i> ADIN	20	APG--SAELRSAFSAARTTPLEGTSEMAVTFDKVYVNI	77
<i>Dasyopus novemcinctus</i> ADIN	20	APG--SSELRSAFSAARTSSLEGTSEMAVTFDKVFNIG	77
<i>Loxodonta africana</i> ADIN	20	APG--SSELRSAFSAARTSPLEGTSEMAVTFDKVYVNI	77
<i>Homo sapiens</i> ADIO	-	-----	-
<i>Pan troglodytes</i> ADIO	-	-----	-
<i>Macaca mulatta</i> ADIO	-	-----	-
<i>Bos taurus</i> ADIO	-	-----	-
<i>Myotis lucifugus</i> ADIO	-	-----	-
<i>Homo sapiens</i> ADIP	-	-----	-
<i>Otolemur garnettii</i> ADIP	-	-----	-
<i>Mus musculus</i> Adip	-	-----	-
<i>Cavia porcellus</i> ADIP	-	-----	-
<i>Bos taurus</i> ADIP	-	-----	-
<i>Equus caballus</i> ADIP	-	-----	-
<i>Loxodonta africana</i> ADIP	-	-----	-
<i>Homo sapiens</i> ADIQ	-	-----	-
<i>Pan troglodytes</i> ADIQ	-	-----	-
<i>Pongo abelii</i> ADIQ	-	-----	-
<i>Nomascus leucogenys</i> ADIQ	-	-----	-
<i>Macaca mulatta</i> ADIQ	-	-----	-
<i>Mus musculus</i> Adiq	-	-----	-
<i>Rattus norvegicus</i> Adiq	-	-----	-
<i>Homo sapiens</i> ADIR	-	-----	-
<i>Pan troglodytes</i> ADIR	-	-----	-
<i>Pongo abelii</i> ADIR	-	-----	-
<i>Nomascus leucogenys</i> ADIR	-	-----	-
<i>Macaca mulatta</i> ADIR	-	-----	-
<i>Papio hamadryas</i> ADIR	-	-----	-
<i>Callithrix jacchus</i> ADIR	-	-----	-
<i>Tarsius syrichta</i> ADIR	-	-----	-
<i>Otolemur garnettii</i> ADIR	-	-----	-
<i>Tupaia belangeri</i> ADIR	-	-----	-
<i>Mus musculus</i> Adir	-	-----	-
<i>Rattus norvegicus</i> Adir	-	-----	-
<i>Cavia porcellus</i> ADIR	-	-----	-
<i>Oryctolagus cuniculus</i> ADIR	-	-----	-
<i>Tursiops truncatus</i> ADIR	-	-----	-
<i>Bos taurus</i> ADIR	-	-----	-
<i>Equus caballus</i> ADIR	-	-----	-
<i>Canis lupus familiaris</i> ADIR	-	-----	-
<i>Myotis lucifugus</i> ADIR	-	-----	-
<i>Pteropus vampyrus</i> ADIR	-	-----	-
<i>Erinaceus europaeus</i> ADIR	-	-----	-
<i>Dasyopus novemcinctus</i> ADIR	-	-----	-
<i>Choloepus hoffmanni</i> ADIR	-	-----	-
<i>Loxodonta africana</i> ADIR	-	-----	-

	550	560	570	580	590	600
<i>Homo sapiens</i> ADIA						
<i>Homo sapiens</i> ADIA						
<i>Papio hamadryas</i> ADIA						
<i>Mus musculus</i> Adia						
<i>Rattus norvegicus</i> Adia						
<i>Cavia porcellus</i> ADIA						
<i>Ochotona princeps</i> ADIA						
<i>Bos taurus</i> ADIA						
<i>Equus caballus</i> ADIA						
<i>Canis lupus familiaris</i> ADIA						
<i>Felis catus</i> ADIA						
<i>Myotis lucifugus</i> ADIA						
<i>Dasyopus novemcinctus</i> ADIA						
<i>Loxodonta africana</i> ADIA						
<i>Homo sapiens</i> ADIB						
<i>Pan troglodytes</i> ADIB						
<i>Pongo abelii</i> ADIB						
<i>Nomascus leucogenys</i> ADIB						
<i>Callithrix jacchus</i> ADIB						
<i>Otolemur garnettii</i> ADIB						
<i>Mus musculus</i> Adib						
<i>Rattus norvegicus</i> Adib						
<i>Cavia porcellus</i> ADIB						
<i>Oryctolagus cuniculus</i> ADIB						
<i>Bos taurus</i> ADIB						
<i>Equus caballus</i> ADIB						
<i>Canis lupus familiaris</i> ADIB						
<i>Myotis lucifugus</i> ADIB						
<i>Loxodonta africana</i> ADIB						
<i>Homo sapiens</i> ADIC						
<i>Macaca mulatta</i> ADIC						
<i>Papio hamadryas</i> ADIC						
<i>Callithrix jacchus</i> ADIC						
<i>Mus musculus</i> Adic						
<i>Rattus norvegicus</i> Adic						
<i>Cavia porcellus</i> ADIC						
<i>Oryctolagus cuniculus</i> ADIC						
<i>Equus caballus</i> ADIC						
<i>Canis lupus familiaris</i> ADIC						
<i>Myotis lucifugus</i> ADIC						
<i>Loxodonta africana</i> ADIC						
<i>Homo sapiens</i> ADID						
<i>Pan troglodytes</i> ADID						
<i>Pongo abelii</i> ADID						
<i>Nomascus leucogenys</i> ADID						
<i>Macaca mulatta</i> ADID						
<i>Otolemur garnettii</i> ADID						
<i>Mus musculus</i> Adid						
<i>Rattus norvegicus</i> Adid						
<i>Cavia porcellus</i> ADID						
<i>Oryctolagus cuniculus</i> ADID						
<i>Bos taurus</i> ADID						
<i>Equus caballus</i> ADID						
<i>Canis lupus familiaris</i> ADID						
<i>Felis catus</i> ADID						
<i>Myotis lucifugus</i> ADID						
<i>Dasyopus novemcinctus</i> ADID						
<i>Loxodonta africana</i> ADID						
<i>Homo sapiens</i> ADIE						
<i>Pan troglodytes</i> ADIE						
<i>Pongo abelii</i> ADIE						
<i>Papio hamadryas</i> ADIE						
<i>Callithrix jacchus</i> ADIE						
<i>Otolemur garnettii</i> ADIE						
<i>Mus musculus</i> Adie						
<i>Rattus norvegicus</i> Adie						
<i>Homo sapiens</i> ADIF1						
<i>Homo sapiens</i> ADIF2						
<i>Pan troglodytes</i> ADIF1						
<i>Pongo abelii</i> ADIF1						
<i>Nomascus leucogenys</i> ADIF1						
<i>Macaca mulatta</i> ADIF1						
<i>Papio hamadryas</i> ADIF1						

<i>Microcebus murinus</i> ADIF1	-	-----	-
<i>Otolemur garnettii</i> ADIF1	-	-----	-
<i>Mus musculus</i> Adif1	-	-----	-
<i>Rattus norvegicus</i> Adif1	-	-----	-
<i>Cavia porcellus</i> ADIF1	-	-----	-
<i>Oryctolagus cuniculus</i> ADIF1	-	-----	-
<i>Ochotona princeps</i> ADIF1	-	-----	-
<i>Bos taurus</i> ADIF1	-	-----	-
<i>Equus caballus</i> ADIF1	-	-----	-
<i>Canis lupus familiaris</i> ADIF1	-	-----	-
<i>Felis catus</i> ADIF1	-	-----	-
<i>Dasyopus novemcinctus</i> ADIF1	-	-----	-
<i>Loxodonta africana</i> ADIF1	-	-----	-
<i>Homo sapiens</i> ADIG	-	-----	-
<i>Pan troglodytes</i> ADIG	-	-----	-
<i>Pongo abelii</i> ADIG	-	-----	-
<i>Callithrix jacchus</i> ADIG	-	-----	-
<i>Otolemur garnettii</i> ADIG	-	-----	-
<i>Mus musculus</i> Adig	-	-----	-
<i>Rattus norvegicus</i> Adig	-	-----	-
<i>Cavia porcellus</i> ADIG	-	-----	-
<i>Oryctolagus cuniculus</i> ADIG	-	-----	-
<i>Tursiops truncatus</i> ADIG	-	-----	-
<i>Bos taurus</i> ADIG	-	-----	-
<i>Equus caballus</i> ADIG	-	-----	-
<i>Canis lupus familiaris</i> ADIG	-	-----	-
<i>Myotis lucifugus</i> ADIG	-	-----	-
<i>Homo sapiens</i> ADIH	-	-----	-
<i>Pan troglodytes</i> ADIH	-	-----	-
<i>Pongo abelii</i> ADIH	-	-----	-
<i>Nomascus leucogenys</i> ADIH	-	-----	-
<i>Macaca mulatta</i> ADIH	-	-----	-
<i>Papio hamadryas</i> ADIH	-	-----	-
<i>Mus musculus</i> Adih	-	-----	-
<i>Rattus norvegicus</i> Adih	-	-----	-
<i>Dipodomys ordii</i> ADIH	-	-----	-
<i>Cavia porcellus</i> ADIH	-	-----	-
<i>Bos taurus</i> ADIH	-	-----	-
<i>Equus caballus</i> ADIH	-	-----	-
<i>Canis lupus familiaris</i> ADIH	-	-----	-
<i>Pteropus vampyrus</i> ADIH	-	-----	-
<i>Loxodonta africana</i> ADIH	-	-----	-
<i>Homo sapiens</i> ADII	-	-----	-
<i>Pongo abelii</i> ADII	-	-----	-
<i>Macaca mulatta</i> ADII	-	-----	-
<i>Mus musculus</i> Adii	-	-----	-
<i>Rattus norvegicus</i> Adii	-	-----	-
<i>Bos taurus</i> ADII	-	-----	-
<i>Canis lupus familiaris</i> ADII	-	-----	-
<i>Dasyopus novemcinctus</i> ADII	-	-----	-
<i>Homo sapiens</i> ADIJ	-	-----	-
<i>Pan troglodytes</i> ADIJ	-	-----	-
<i>Papio hamadryas</i> ADIJ	-	-----	-
<i>Mus musculus</i> Adij	-	-----	-
<i>Rattus norvegicus</i> Adij	-	-----	-
<i>Oryctolagus cuniculus</i> ADIJ	-	-----	-
<i>Bos taurus</i> ADIJ	-	-----	-
<i>Canis lupus familiaris</i> ADIJ	-	-----	-
<i>Loxodonta africana</i> ADIJ	-	-----	-
<i>Homo sapiens</i> ADIK	-	-----	-
<i>Pan troglodytes</i> ADIK	-	-----	-
<i>Gorilla gorilla</i> ADIK	-	-----	-
<i>Papio hamadryas</i> ADIK	-	-----	-
<i>Callithrix jacchus</i> ADIK	-	-----	-
<i>Rattus norvegicus</i> Adik	-	-----	-
<i>Cavia porcellus</i> ADIK	-	-----	-
<i>Equus caballus</i> ADIK	-	-----	-
<i>Canis lupus familiaris</i> ADIK	-	-----	-
<i>Dasyopus novemcinctus</i> ADIK	-	-----	-
<i>Loxodonta africana</i> ADIK	-	-----	-
<i>Mus musculus</i> Adil	-	-----	-
<i>Rattus norvegicus</i> Adil	-	-----	-
<i>Homo sapiens</i> ADIM	-	-----	-
<i>Pan troglodytes</i> ADIM	-	-----	-

<i>Pongo abelii</i> ADIM	-	-----	-
<i>Nomascus leucogenys</i> ADIM	-	-----	-
<i>Papio hamadryas</i> ADIM	-	-----	-
<i>Callithrix jacchus</i> ADIM	-	-----	-
<i>Mus musculus</i> Adim	-	-----	-
<i>Rattus norvegicus</i> Adim	-	-----	-
<i>Cavia porcellus</i> ADIM	-	-----	-
<i>Bos taurus</i> ADIM	-	-----	-
<i>Equus caballus</i> ADIM	-	-----	-
<i>Canis lupus familiaris</i> ADIM	-	-----	-
<i>Homo sapiens</i> ADIN	80	FTAGKAPHKSLSVMLVRNRDEVQALAFDEQRRPGARRAASQSAMLQLDYGDTVWLRRLHGA	139
<i>Pan troglodytes</i> ADIN	80	FTAGKAPHKSLSVMLVRNRDEVQALAFDEQRRPGARRAASQSAMLQLDYGDTVWLRRLHGA	139
<i>Pongo abelii</i> ADIN	80	FTAGKAPHKSLSVMLVRNRDEVQALAFDEQRRPGARRAASQSAMLQLDYGDTVWLRRLHGA	139
<i>Nomascus leucogenys</i> ADIN	80	FTAGKAPHKSLSVMLVRNRDEVQALAFDEQRRPGARRAASQSAMLQLDYGDTVWLRRLHGA	139
<i>Macaca mulatta</i> ADIN	80	FTVGKAPHKSLSVMLVRNHDEVQALAFDEQRRPSARRAASQSAMLQLDYGDTVWLRRLHGS	139
<i>Callithrix jacchus</i> ADIN	80	FTAGKAPHKSLSVMLVRNRDEVQALAFDEQRRPSARRAASQSAMLQLDYGDTVWLRRLHGA	139
<i>Mus musculus</i> Adin	79	FTAGKAPHKSLSVMLVRNRDEVQALAFDEQRRPGARRAASQSAMLQLDYGDTVWLRRLHGA	138
<i>Cavia porcellus</i> ADIN	91	FTAGKAPHKSLSVMLVRNRDEVQALAFDEQRRPGTRRAASQSAMLQLDYGDTVWLRRLHGA	150
<i>Tursiops truncatus</i> ADIN	78	FTAGKAPHKSLSVMLVRNRDEVQALAFDEQRRPATRHAASQSAMLQLDYGDTVWLRRLHGA	137
<i>Canis lupus familiaris</i> ADIN	78	FTAGKAPHKSLSVMLVRNRDEVQALAFDEQRRPGARRAASQSAMLQLDYGDTVWLRRLHGA	137
<i>Dasyopus novemcinctus</i> ADIN	78	FTAGKAPHKSLSVMLVRNSDEVQTLAFDEQRRPGARRAASQSAMLQLDYGDTVWLRRLHGA	137
<i>Loxodonta africana</i> ADIN	78	FTAGKAPHKSLSVMLVRNRNEVQALAFDEQRRPGARRAASQSAMLQLDYGDTVWLRRLHGA	137
<i>Homo sapiens</i> ADIO	-	-----	-
<i>Pan troglodytes</i> ADIO	-	-----	-
<i>Macaca mulatta</i> ADIO	-	-----	-
<i>Bos taurus</i> ADIO	-	-----	-
<i>Myotis lucifugus</i> ADIO	-	-----	-
<i>Homo sapiens</i> ADIP	-	-----	-
<i>Otolemur garnettii</i> ADIP	-	-----	-
<i>Mus musculus</i> Adip	-	-----	-
<i>Cavia porcellus</i> ADIP	-	-----	-
<i>Bos taurus</i> ADIP	-	-----	-
<i>Equus caballus</i> ADIP	-	-----	-
<i>Loxodonta africana</i> ADIP	-	-----	-
<i>Homo sapiens</i> ADIQ	-	-----	-
<i>Pan troglodytes</i> ADIQ	-	-----	-
<i>Pongo abelii</i> ADIQ	-	-----	-
<i>Nomascus leucogenys</i> ADIQ	-	-----	-
<i>Macaca mulatta</i> ADIQ	-	-----	-
<i>Mus musculus</i> Adiq	-	-----	-
<i>Rattus norvegicus</i> Adiq	-	-----	-
<i>Homo sapiens</i> ADIR	-	-----	-
<i>Pan troglodytes</i> ADIR	-	-----	-
<i>Pongo abelii</i> ADIR	-	-----	-
<i>Nomascus leucogenys</i> ADIR	-	-----	-
<i>Macaca mulatta</i> ADIR	-	-----	-
<i>Papio hamadryas</i> ADIR	-	-----	-
<i>Callithrix jacchus</i> ADIR	-	-----	-
<i>Tarsius syrichta</i> ADIR	-	-----	-
<i>Otolemur garnettii</i> ADIR	-	-----	-
<i>Tupaia belangeri</i> ADIR	-	-----	-
<i>Mus musculus</i> Adir	-	-----	-
<i>Rattus norvegicus</i> Adir	-	-----	-
<i>Cavia porcellus</i> ADIR	-	-----	-
<i>Oryctolagus cuniculus</i> ADIR	-	-----	-
<i>Tursiops truncatus</i> ADIR	-	-----	-
<i>Bos taurus</i> ADIR	-	-----	-
<i>Equus caballus</i> ADIR	-	-----	-
<i>Canis lupus familiaris</i> ADIR	-	-----	-
<i>Myotis lucifugus</i> ADIR	-	-----	-
<i>Pteropus vampyrus</i> ADIR	-	-----	-
<i>Erinaceus europaeus</i> ADIR	-	-----	-
<i>Dasyopus novemcinctus</i> ADIR	-	-----	-
<i>Choloepus hoffmanni</i> ADIR	-	-----	-
<i>Loxodonta africana</i> ADIR	-	-----	-

<i>Homo sapiens</i> ADIA	610	620	630	640	650	660
<i>Homo sapiens</i> ADIA						
<i>Papio hamadryas</i> ADIA						
<i>Mus musculus</i> Adia						
<i>Rattus norvegicus</i> Adia						
<i>Cavia porcellus</i> ADIA						
<i>Ochotona princeps</i> ADIA						
<i>Bos taurus</i> ADIA						
<i>Equus caballus</i> ADIA						
<i>Canis lupus familiaris</i> ADIA						
<i>Felis catus</i> ADIA						
<i>Myotis lucifugus</i> ADIA						
<i>Dasyopus novemcinctus</i> ADIA						
<i>Loxodonta africana</i> ADIA						
<i>Homo sapiens</i> ADIB						
<i>Pan troglodytes</i> ADIB						
<i>Pongo abelii</i> ADIB						
<i>Nomascus leucogenys</i> ADIB						
<i>Callithrix jacchus</i> ADIB						
<i>Otolemur garnettii</i> ADIB						
<i>Mus musculus</i> Adib						
<i>Rattus norvegicus</i> Adib						
<i>Cavia porcellus</i> ADIB						
<i>Oryctolagus cuniculus</i> ADIB						
<i>Bos taurus</i> ADIB						
<i>Equus caballus</i> ADIB						
<i>Canis lupus familiaris</i> ADIB						
<i>Myotis lucifugus</i> ADIB						
<i>Loxodonta africana</i> ADIB						
<i>Homo sapiens</i> ADIC						
<i>Macaca mulatta</i> ADIC						
<i>Papio hamadryas</i> ADIC						
<i>Callithrix jacchus</i> ADIC						
<i>Mus musculus</i> Adic						
<i>Rattus norvegicus</i> Adic						
<i>Cavia porcellus</i> ADIC						
<i>Oryctolagus cuniculus</i> ADIC						
<i>Equus caballus</i> ADIC						
<i>Canis lupus familiaris</i> ADIC						
<i>Myotis lucifugus</i> ADIC						
<i>Loxodonta africana</i> ADIC						
<i>Homo sapiens</i> ADID						
<i>Pan troglodytes</i> ADID						
<i>Pongo abelii</i> ADID						
<i>Nomascus leucogenys</i> ADID						
<i>Macaca mulatta</i> ADID						
<i>Otolemur garnettii</i> ADID						
<i>Mus musculus</i> Adid						
<i>Rattus norvegicus</i> Adid						
<i>Cavia porcellus</i> ADID						
<i>Oryctolagus cuniculus</i> ADID						
<i>Bos taurus</i> ADID						
<i>Equus caballus</i> ADID						
<i>Canis lupus familiaris</i> ADID						
<i>Felis catus</i> ADID						
<i>Myotis lucifugus</i> ADID						
<i>Dasyopus novemcinctus</i> ADID						
<i>Loxodonta africana</i> ADID						
<i>Homo sapiens</i> ADIE						
<i>Pan troglodytes</i> ADIE						
<i>Pongo abelii</i> ADIE						
<i>Papio hamadryas</i> ADIE						
<i>Callithrix jacchus</i> ADIE						
<i>Otolemur garnettii</i> ADIE						
<i>Mus musculus</i> Adie						
<i>Rattus norvegicus</i> Adie						
<i>Homo sapiens</i> ADIF1						
<i>Homo sapiens</i> ADIF2						
<i>Pan troglodytes</i> ADIF1						
<i>Pongo abelii</i> ADIF1						
<i>Nomascus leucogenys</i> ADIF1						
<i>Macaca mulatta</i> ADIF1						
<i>Papio hamadryas</i> ADIF1						

<i>Microcebus murinus</i> ADIF1	-	-----	-
<i>Otolemur garnettii</i> ADIF1	-	-----	-
<i>Mus musculus</i> Adif1	-	-----	-
<i>Rattus norvegicus</i> Adif1	-	-----	-
<i>Cavia porcellus</i> ADIF1	-	-----	-
<i>Oryctolagus cuniculus</i> ADIF1	-	-----	-
<i>Ochotona princeps</i> ADIF1	-	-----	-
<i>Bos taurus</i> ADIF1	-	-----	-
<i>Equus caballus</i> ADIF1	-	-----	-
<i>Canis lupus familiaris</i> ADIF1	-	-----	-
<i>Felis catus</i> ADIF1	-	-----	-
<i>Dasyopus novemcinctus</i> ADIF1	-	-----	-
<i>Loxodonta africana</i> ADIF1	-	-----	-
<i>Homo sapiens</i> ADIG	-	-----	-
<i>Pan troglodytes</i> ADIG	-	-----	-
<i>Pongo abelii</i> ADIG	-	-----	-
<i>Callithrix jacchus</i> ADIG	-	-----	-
<i>Otolemur garnettii</i> ADIG	-	-----	-
<i>Mus musculus</i> Adig	-	-----	-
<i>Rattus norvegicus</i> Adig	-	-----	-
<i>Cavia porcellus</i> ADIG	-	-----	-
<i>Oryctolagus cuniculus</i> ADIG	-	-----	-
<i>Tursiops truncatus</i> ADIG	-	-----	-
<i>Bos taurus</i> ADIG	-	-----	-
<i>Equus caballus</i> ADIG	-	-----	-
<i>Canis lupus familiaris</i> ADIG	-	-----	-
<i>Myotis lucifugus</i> ADIG	-	-----	-
<i>Homo sapiens</i> ADIH	-	-----	-
<i>Pan troglodytes</i> ADIH	-	-----	-
<i>Pongo abelii</i> ADIH	-	-----	-
<i>Nomascus leucogenys</i> ADIH	-	-----	-
<i>Macaca mulatta</i> ADIH	-	-----	-
<i>Papio hamadryas</i> ADIH	-	-----	-
<i>Mus musculus</i> Adih	-	-----	-
<i>Rattus norvegicus</i> Adih	-	-----	-
<i>Dipodomys ordii</i> ADIH	-	-----	-
<i>Cavia porcellus</i> ADIH	-	-----	-
<i>Bos taurus</i> ADIH	-	-----	-
<i>Equus caballus</i> ADIH	-	-----	-
<i>Canis lupus familiaris</i> ADIH	-	-----	-
<i>Pteropus vampyrus</i> ADIH	-	-----	-
<i>Loxodonta africana</i> ADIH	-	-----	-
<i>Homo sapiens</i> ADII	121	-----LTAGTASGVGVVGGGAGVGGDSEGEVTSALS	151
<i>Pongo abelii</i> ADII	121	-----LTAGTASGVGVVGGGAGVGGDSEGEVTSALS	151
<i>Macaca mulatta</i> ADII	121	-----LTAGTAGGVGVVGGGAGGAGDSEGEVTSALS	151
<i>Mus musculus</i> Adii	121	-----LT TSAAGGVGVVSGGTGGGGDTEGEVTSALS	151
<i>Rattus norvegicus</i> Adii	121	-----LT TSAAGGVGVVSGGTGGGGDTEGEVTSALS	151
<i>Bos taurus</i> ADII	121	-----LTAGAAGGVGVVGGGTGGGGDSEGEVTGALS	151
<i>Canis lupus familiaris</i> ADII	121	-----LAAGAAGGVGVVAGGGAGGGDSEGEVTGALS	151
<i>Dasyopus novemcinctus</i> ADII	121	-----LTAGAAGGVGVVAGGGAPGGGDSEGEVTGALG	151
<i>Homo sapiens</i> ADIJ	112	-----AAGAIS	117
<i>Pan troglodytes</i> ADIJ	112	-----AAGAIS	117
<i>Papio hamadryas</i> ADIJ	112	-----AAGAIS	117
<i>Mus musculus</i> Adij	112	-----AAGAIS	117
<i>Rattus norvegicus</i> Adij	112	-----AAGAIS	117
<i>Oryctolagus cuniculus</i> ADIJ	112	-----AAGAIS	117
<i>Bos taurus</i> ADIJ	112	-----AAGAIS	117
<i>Canis lupus familiaris</i> ADIJ	112	-----AAGAIS	117
<i>Loxodonta africana</i> ADIJ	112	-----AAGAIS	117
<i>Homo sapiens</i> ADIK	97	-----PGGVAP-	102
<i>Pan troglodytes</i> ADIK	97	-----PGGVAP-	102
<i>Gorilla gorilla</i> ADIK	97	-----PGGVAP-	102
<i>Papio hamadryas</i> ADIK	97	-----PGGVAP-	102
<i>Callithrix jacchus</i> ADIK	97	-----PGGVAP-	102
<i>Rattus norvegicus</i> Adik	97	-----PGGAAP-	102
<i>Cavia porcellus</i> ADIK	97	-----PGGAAP-	102
<i>Equus caballus</i> ADIK	97	-----PGGVAP-	102
<i>Canis lupus familiaris</i> ADIK	97	-----PGGVAP-	102
<i>Dasyopus novemcinctus</i> ADIK	97	-----PGGAAP-	102
<i>Loxodonta africana</i> ADIK	97	-----PGGVAP-	102
<i>Mus musculus</i> Adil	118	-----AIS	120
<i>Rattus norvegicus</i> Adil	118	-----AIS	120
<i>Homo sapiens</i> ADIM	-	-----	-
<i>Pan troglodytes</i> ADIM	-	-----	-

<i>Pongo abelii</i> ADIM	-	-----	-
<i>Nomascus leucogenys</i> ADIM	-	-----	-
<i>Papio hamadryas</i> ADIM	-	-----	-
<i>Callithrix jacchus</i> ADIM	-	-----	-
<i>Mus musculus</i> Adim	-	-----	-
<i>Rattus norvegicus</i> Adim	-	-----	-
<i>Cavia porcellus</i> ADIM	-	-----	-
<i>Bos taurus</i> ADIM	-	-----	-
<i>Equus caballus</i> ADIM	-	-----	-
<i>Canis lupus familiaris</i> ADIM	-	-----	-
<i>Homo sapiens</i> ADIN	140	PQYALGAPGATFSGYLVYADADA--DAPA-----	RGPPA 171
<i>Pan troglodytes</i> ADIN	140	PQYALGAPGATFSGYLVYADADA--DAPA-----	RGPPA 171
<i>Pongo abelii</i> ADIN	140	PQYALGAPGATFSGYLVYADADA--DAPA-----	RGPPA 171
<i>Nomascus leucogenys</i> ADIN	140	PQYALGAPGATFSGYLVYADADA--DAPA-----	166
<i>Macaca mulatta</i> ADIN	140	PQYALGAPGATFSGYLVYADADADADADA-----	RGPPA 173
<i>Callithrix jacchus</i> ADIN	140	PQYALGAPGATFSGYLVYADADA--DAPA-----	RGPPA 171
<i>Mus musculus</i> Adin	139	PQYALGAPGATFSGYLVYADADA--DAPA-----	RG-PA 169
<i>Cavia porcellus</i> ADIN	151	PQYALGSPGATFSGYLVYADADA--PAPA-----	PG-PA 181
<i>Tursiops truncatus</i> ADIN	138	QQYALGAPGATFSGYLVYADAD---APA-----	RGPPA 167
<i>Canis lupus familiaris</i> ADIN	138	PQYALGAPGATFSGYLVYADAD---APA-----	RGPPA 167
<i>Dasyopus novemcinctus</i> ADIN	138	PQYALGAPGATFSGYLVYADAD---APA-----	RGPPA 167
<i>Loxodonta africana</i> ADIN	138	PQYALGAPGATFSGYLVYADAD---APA-----	RSPOG 167
<i>Homo sapiens</i> ADIO	-	-----	-
<i>Pan troglodytes</i> ADIO	-	-----	-
<i>Macaca mulatta</i> ADIO	-	-----	-
<i>Bos taurus</i> ADIO	-	-----	-
<i>Myotis lucifugus</i> ADIO	-	-----	-
<i>Homo sapiens</i> ADIP	-	-----	-
<i>Otolemur garnettii</i> ADIP	-	-----	-
<i>Mus musculus</i> Adip	-	-----	-
<i>Cavia porcellus</i> ADIP	-	-----	-
<i>Bos taurus</i> ADIP	-	-----	-
<i>Equus caballus</i> ADIP	-	-----	-
<i>Loxodonta africana</i> ADIP	-	-----	-
<i>Homo sapiens</i> ADIQ	-	-----	-
<i>Pan troglodytes</i> ADIQ	-	-----	-
<i>Pongo abelii</i> ADIQ	-	-----	-
<i>Nomascus leucogenys</i> ADIQ	-	-----	-
<i>Macaca mulatta</i> ADIQ	-	-----	-
<i>Mus musculus</i> Adiq	-	-----	-
<i>Rattus norvegicus</i> Adiq	-	-----	-
<i>Homo sapiens</i> ADIR	16	-----	LPVHVYPL 23
<i>Pan troglodytes</i> ADIR	16	-----	LPVHVYPL 23
<i>Pongo abelii</i> ADIR	16	-----	LPVHVYPL 23
<i>Nomascus leucogenys</i> ADIR	16	-----	LPVHVYPL 23
<i>Macaca mulatta</i> ADIR	16	-----	LPVHVYPL 23
<i>Papio hamadryas</i> ADIR	16	-----	LPVHVYPL 23
<i>Callithrix jacchus</i> ADIR	16	-----	LPVHVYPL 23
<i>Tarsius syrichta</i> ADIR	16	-----	LPVHVYPL 23
<i>Otolemur garnettii</i> ADIR	16	-----	LPVHVYPL 23
<i>Tupaia belangeri</i> ADIR	16	-----	LPVHVYPL 23
<i>Mus musculus</i> Adir	16	-----	LPVHIYPL 23
<i>Rattus norvegicus</i> Adir	16	-----	LPVHVYPL 23
<i>Cavia porcellus</i> ADIR	16	-----	LPVHVYPL 23
<i>Oryctolagus cuniculus</i> ADIR	16	-----	LPVHVYPL 23
<i>Tursiops truncatus</i> ADIR	16	-----	LPVHVYPL 23
<i>Bos taurus</i> ADIR	16	-----	LPVHVYPL 23
<i>Equus caballus</i> ADIR	16	-----	LPVHVYPL 23
<i>Canis lupus familiaris</i> ADIR	16	-----	LPVHVYPL 23
<i>Myotis lucifugus</i> ADIR	16	-----	LPVHVYPL 23
<i>Pteropus vampyrus</i> ADIR	16	-----	LPVHVYPL 23
<i>Erinaceus europaeus</i> ADIR	-	-----	-
<i>Dasyopus novemcinctus</i> ADIR	16	-----	LPVHVYPL 23
<i>Choloepus hoffmanni</i> ADIR	16	-----	LPVHVYPL 23
<i>Loxodonta africana</i> ADIR	16	-----	LPVHVYPL 23

Homo sapiens ADIA 317 ---K---ATQKIAFSATRTINVP-----L-RRDQT-IRFDHVIITN-MN-NNYEPRSGKF 160
670 680 690 700 710 720
Homo sapiens ADIA 317 ---K---ATQKIAFSATRTINVP-----L-RRDQT-IRFDHVIITN-MN-NNYEPRSGKF 160
Papio hamadryas ADIA 317 ---K---ATQKIAFSATRTINTP-----L-RRDQT-IRFDHVIITN-MN-NNYEPRSGKF 160
Mus musculus Adia 344 ---G---ATQKVAFSAALRTINS-----L-RPNQV-IREKVIITN-AN-ENYEPRNGKF 187
Rattus norvegicus Adia 315 ---K---ATQKVAFSAALRTVNSA-----L-RPNQA-IREKVIITN-VN-DNYEPRSGKF 158
Cavia porcellus ADIA 315 ---K---ATQKVAFSALKTLTSA-----V-RAKQA-IRFDSVIITN-VN-KNYEPRSGKF 158
Ochotona princeps ADIA 315 ---K---ATQKIVFSLKTTATP-----V-RRDLP-VREHTIITN-EN-NNYEPRSGKF 158
Bos taurus ADIA 311 ---K---ATQKIAFSASRTINHH-----Q-RQGQP-IRFDHVIITN-AN-ENYQARSSKF 154
Equus caballus ADIA 316 ---K---TTQKIGFSATRTVNIP-----L-RKDQV-IRFDHLIITN-VN-DNYQPRSGKF 159
Canis lupus familiaris ADIA 314 ---K---ATQKIAFSAMRTINIP-----L-RRDQT-IRFDHVIITN-EN-RNYEPRSGKF 157
Felis catus ADIA 318 ---K---ATQKIAFCAKRTINSA-----L-RRDQA-IRFDQVIITN-LN-NNYEPRSGKF 161
Myotis lucifugus ADIA 315 ---K---ATQKVAFSALRKINTP-----L-RKDQV-IRFDHVIITN-VN-NNYEPRSGKF 158
Dasytus novemcinctus ADIA 312 ---K---ATQKIAFSATRTVTP-----L-RRDQT-IRFDHVIITN-EN-NNYEPRSGKF 155
Loxodonta africana ADIA 315 ---K---ATQKIAFSALRNINVP-----L-RRDQA-IRFDHVIITN-EN-NNYEPRSGKF 158
Homo sapiens ADIB 315 ---K---QKFQSVFTVTRQTHQP-----P-APNSL-IRENAVLITN-PQ-GDYDTSTGKF 158
Pan troglodytes ADIB 315 ---K---QKFQSVFTVARQTHQP-----P-APNSL-IRENAVLITN-PQ-GDYDTSTGKF 158
Pongo abelii ADIB 315 ---K---QKFQSVFTVTRQTHQP-----P-APNSL-IRENAVLITN-PQ-GDYDTSTGKF 158
Nomascus leucogenys ADIB 316 ---K---QKFQSVFTVTRQTHQP-----P-APNSL-IRENAVLITN-PQ-GDYDTSTGKF 159
Callithrix jacchus ADIB 314 ---K---QKYQSVFTVTRQTSQF-----P-AANGL-IRENTAVITN-PQ-GDYDTSTGKF 157
Otolemur garnettii ADIB 313 ---K---QKHQSVFTVTRQTAQY-----P-EPNSL-VKENTVITN-PQ-GDYNTGTGKF 156
Mus musculus Adib 346 ---K---QKHQSVFTVTRQTTQY-----P-EANAL-VRENSVITN-PQ-GHYNPSTGKF 189
Rattus norvegicus Adib 318 ---K---QKHQSVFTVTRQTAQY-----P-AANGL-VKENSATITN-PQ-GDYNTGTGKF 181
Cavia porcellus ADIB 362 ---K---QKHQSVFTVARQTEQH-----P-TANGL-VRENAAITN-PQ-GDYDRDSGRF 205
Oryctolagus cuniculus ADIB 368 ---K---QKHQSVFTVTRQTAQF-----P-ESNSL-VRENTAITN-PQ-GDYDTSTGKF 211
Bos taurus ADIB 313 ---K---QKHQSVFVTRQTVQF-----P-EANSL-VKENRVITN-PQ-GHYDKDSGRF 156
Equus caballus ADIB 313 ---K---QKHQSVFTVTRQTDQY-----P-AANSL-VKENTVITN-PQ-GHYDTSTGKF 176
Canis lupus familiaris ADIB 315 ---K---QKHQSVFTVTRQTAQY-----P-LANGL-VKENTVITN-PQ-GHYDTSTGKF 158
Myotis lucifugus ADIB 315 ---K---QKHQSVFTVTRQTAEH-----P-TSNGL-VKENTVITN-PQ-GDYNTSTGKF 158
Loxodonta africana ADIB 313 ---K---QKHQSVFTVTRQTVQY-----P-EPNSL-VKENGVIITN-PQ-GHYDTSTGKF 156
Homo sapiens ADIC 310 ---K---DQPRPAFSAIRRN-----P-MGGNV-VIFDVTIITN-QE-EPYQNHSGRF 151
Macaca mulatta ADIC 310 ---K---DQPRPAFSAIRRN-----P-MGGNV-VIFDMVIITN-QE-EPYQNHSGRF 151
Papio hamadryas ADIC 310 ---K---DQPRPAFSAIRRN-----P-MGGNV-VIFDVTIITN-QE-EPYQNHSGRF 151
Callithrix jacchus ADIC 310 ---R---DQPRPAFSAIRRN-----P-MGGNV-VIFDVTIITN-QE-GPYQNHSGRF 151
Mus musculus Adic 310 ---R---DQPRPAFSAIRRN-----M-TLGNV-VIFDKVLTN-QE-SPYQNHSGRF 151
Rattus norvegicus Adic 322 ---R---DQPRPAFSAIRRN-----P-TYGNV-VIFDKVLTN-QE-NPYQNHSGRF 163
Cavia porcellus ADIC 309 ---R---DQPRPAFSAVRRNP-----P-KRDKV-VIFDVTIITN-QE-GPYRNDTGHF 151
Oryctolagus cuniculus ADIC 351 ---R---DQPRPAFSAVRRNP-----P-SGGNV-VIFDVTIITN-QE-EPYQNHSGRF 192
Equus caballus ADIC 343 ---K---DQPRPAFSAVRRNA-----P-LDSNM-VIFDEVIITN-QE-GSYDRSSTGHF 184
Canis lupus familiaris ADIC 329 ---R---DQPRPAFSAIRRN-----P-TGGNV-VIFDVTIITN-QE-GPYQNHSGRF 170
Myotis lucifugus ADIC 310 ---N---DQPRPAFSAVRRNP-----P-TGGNV-VIFDVTIITN-EE-GRYQSHSGRF 151
Loxodonta africana ADIC 325 ---K---DQPRPAFSAVRRNP-----P-MGGNV-VIFDVTIITN-QE-GPYQNHSGRF 166
Homo sapiens ADID 339 ---A---YVYRSAFVSGLE--TY-----V-TIPNMPIRETKIFYN-QQ-NHYDGSTGKF 181
Pan troglodytes ADID 339 ---A---YVYRSAFVSGLE--TY-----I-TVPNMPIRETKIFYN-QQ-NHYDGSTGKF 181
Pongo abelii ADID 308 ---A---YVYRSAFVSGLE--TY-----V-TVPNMPIRETKIFYN-QQ-NHYDGSTGKF 150
Nomascus leucogenys ADID 338 ---A---YVYRSAFVSGLE--TY-----V-TVPNMPIRETKIFYN-QQ-NHYDGSTGKF 180
Macaca mulatta ADID 337 ---A---YVYRSAFVSGLE--TY-----V-TVPNMPIRETKIFYN-QQ-NHYDGSTGKF 179
Otolemur garnettii ADID 308 ---A---YVYRSAFVSGLE--NR-----V-TVPNVPIRETKIFYN-QQ-NHYDGSTGKF 150
Mus musculus Adid 322 ---A---YVYRSAFVSGLE--TR-----V-TVPNVPIRETKIFYN-QQ-NHYDGSTGKF 164
Rattus norvegicus Adid 308 ---A---YVYRSAFVSGLE--TR-----V-TVPNVPIRETKIFYN-QQ-NHYDGSTGKF 150
Cavia porcellus ADID 350 ---A---FYVYRSAFVSGLE--AY-----V-TVPNVPIRETKIFYN-QQ-NHYDGSTGKF 192
Oryctolagus cuniculus ADID 318 ---A---YVYRSAFVSGLE--GR-----V-TIPNVPIRETKIFYN-QQ-NHYDGSTGKF 160
Bos taurus ADID 303 ---A---YVYRSAFVSGLE--RQ-----V-TVPNVPIRETKIFYN-QQ-NHYDGSTGKF 145
Equus caballus ADID 365 ---S---YVYRSAFVSGLE--TR-----V-TVPNVPIRETKIFYN-QQ-NHYDGSTGKF 207
Canis lupus familiaris ADID 317 ---A---YVYRSAFVSGLE--SR-----I-TVPNVPIRETKIFYN-LQ-NHYDGSTGKF 159
Felis catus ADID 308 ---A---YVYRSAFVSGLE--SR-----V-TVPNVPIRETKIFYN-QQ-NHYDVTGKF 150
Myotis lucifugus ADID 317 ---A---YVYRSAFVSGLE--TR-----V-TVPNVPIRETKIFYN-QQ-NHYDVTGKF 159
Dasytus novemcinctus ADID 307 ---A---YVYRSAFVSGLE--AR-----V-TVPNVPIRETKIFYN-QQ-SHYDVTGKF 149
Loxodonta africana ADID 308 ---A---YSYRSAFVSGLE--AR-----V-TVPNVPIRETKIFYN-QQ-NHYDGSTGKF 150
Homo sapiens ADIE 399 ---S---VPPRSAFSAKRSESRV-----P-PPSDAPLPEFDRVLVN-EQ-GHYDAVTGKF 143
Pan troglodytes ADIE 399 ---S---VPPRSAFSAKRSESRV-----P-PPSDAPLPEFDRVLVN-EQ-GHYDAVTGKF 143
Pongo abelii ADIE 399 ---S---VPPRSAFSAKRSESRV-----P-PPSDAPLPEFDRVLVN-EQ-GHYDAVTGKF 143
Papio hamadryas ADIE 399 ---S---VPPRSAFSAKRSESRV-----P-PPSDAPLPEFDRVLVN-EQ-GHYDAVTGKF 143
Callithrix jacchus ADIE 399 ---S---VPPRSAFSAKRSESRV-----P-PPSDAPLPEFDRVLVN-EQ-GHYDAVTGKF 143
Otolemur garnettii ADIE 399 ---S---VPPRSAFSAKRSESRV-----P-PLSDAPLPEFDRVLVN-EQ-GHYDAVTGKF 143
Mus musculus Adie 399 ---S---VPPRSAFSAKRSESRV-----P-PPADTPEFDRVLVN-EQ-GHYDPTGKF 143
Rattus norvegicus Adie 399 ---S---VPPRSAFSAKRSESRV-----P-PPADTPEFDRVLVN-EQ-GHYDPTGKF 143
Homo sapiens ADIF1 397 ---L---VLPKSAFTVGLTVLSK-----F-PSSDVPKEDKILYN-EF-NHYDTAAGKF 241
Homo sapiens ADIF2 397 ---L---VLPKSAFTVGLTVLSK-----F-PSSDVPKEDKILYN-EF-NHYDTAAGKF 241
Pan troglodytes ADIF1 397 ---L---VLPKSAFTVGLTVLSK-----F-PSSDVPKEDKILYN-EF-NHYDTAAGKF 241
Pongo abelii ADIF1 397 ---L---VLPKSAFTVGLTVLSK-----F-PSSDVPKEDKILYN-EF-NHYDTAAGKF 241
Nomascus leucogenys ADIF1 397 ---L---VLPKSAFTVGLTVLSK-----F-PSSDVPKEDKILYN-EF-NHYDTAAGKF 241
Macaca mulatta ADIF1 397 ---L---VLPKSAFTVGLTVLSK-----F-PSSDVPKEDKILYN-EF-NHYDTAAGKF 241
Papio hamadryas ADIF1 397 ---L---VLPKSAFTVGLTVLSK-----F-PSSDVPKEDKILYN-EF-NHYDTAAGKF 241

<i>Microcebus murinus</i> ADIF1	197	----	P---	ALPKSAFTVGLTVLSK----	F-PSSDVP	IKFDKILYN-EF-NHYDVATGKF	241
<i>Otolemur garnettii</i> ADIF1	197	----	P---	VLPKSAFTVGLTVLSK----	F-PSSDVP	IKFDKILYN-DF-NHYDIAGKGF	241
<i>Mus musculus</i> Adif1	226	----	P---	LVPKSAFTVGLTVISK----	F-PPDPAP	IKFDKILYN-EL-NHYNVATGKF	270
<i>Rattus norvegicus</i> Adif1	213	----	P---	MVPKSAFTVGLTVISK----	F-PPDPVP	IKFDKILYN-EQ-NHYNVATGKF	257
<i>Cavia porcellus</i> ADIF1	197	----	P---	VLPKSAFTVGLTVLNK----	F-PASDAP	IKFDKILYN-EF-NHYDVATGKF	241
<i>Oryctolagus cuniculus</i> ADIF1	197	----	P---	VLPKSAFTVGLTVLSK----	F-PASDVP	IKFDKILYN-EL-NHYNVATGKF	241
<i>Ochotona princeps</i> ADIF1	197	----	P---	VTPKSAFTVGLTVLSK----	F-PDADVP	IKFDKILYN-DL-NHYNVATGKF	241
<i>Bos taurus</i> ADIF1	197	----	P---	VLPKSAFTVGLTVLSK----	F-PSSDTP	IKFDKILYN-EF-HHYNVATGKF	241
<i>Equus caballus</i> ADIF1	197	----	P---	VLPKSAFTVGLTVLSK----	F-PSSDVP	IKFDKILYN-EF-NHFDIATGKF	241
<i>Canis lupus familiaris</i> ADIF1	197	----	P---	VLPKSAFTVGLTVLSK----	F-PTSDVP	IKFDKILYN-EF-NHYDVATGKF	241
<i>Felis catus</i> ADIF1	197	----	P---	VLPKSAFTVGLTVLSK----	F-PASDAP	IKFDKILYN-EF-NHYDVATGKF	241
<i>Dasyopus novemcinctus</i> ADIF1	198	----	P---	VPPKSAFTVGLTVLSK----	F-PSSDVP	IKFDKILYN-EF-NHFDIATGKF	242
<i>Loxodonta africana</i> ADIF1	197	----	P---	VLPKSAFTVGLTVLSK----	F-PSSDLP	IKFDKILYN-EF-HHYNVATGKF	241
<i>Homo sapiens</i> ADIG	194	----	RCGSIVLKS	AFSVGIT-TS-----	Y-PEERLPI	IFNKVLEN-EG-EHYNPATGKF	239
<i>Pan troglodytes</i> ADIG	194	----	RCGSIVLKS	AFSVGIT-TS-----	Y-PEERLPI	IFNKVLEN-EG-EHYNPATGKF	239
<i>Pongo abelii</i> ADIG	194	----	RCGSIVLKS	AFSVGIT-TS-----	Y-PEERLPI	IFNKVLEN-EG-EHYNPATGKF	239
<i>Callithrix jacchus</i> ADIG	180	----	RCGSIVLKS	AFSVGIT-TS-----	Y-PEERLPI	IFNKVLEN-EG-EHYNPATGKF	225
<i>Otolemur garnettii</i> ADIG	140	----	RCGSIVLKS	AFSVGIT-TS-----	Y-PEERLPI	IFNKVLEN-EG-EHYNPATGKF	185
<i>Mus musculus</i> Adig	182	----	RCGSIVLKS	AFSVGIT-TS-----	Y-PEERLPI	IFNKVLEN-EG-EHYNPATGKF	227
<i>Rattus norvegicus</i> Adig	183	----	RCGSIVLKS	AFSVGIT-TS-----	Y-PEERLPI	IFNKVLEN-EG-EHYNPATGKF	228
<i>Cavia porcellus</i> ADIG	140	----	RCGSIVLKS	AFSVGIT-TS-----	Y-PEERLPI	IFNKVLEN-EG-EHYNPATGKF	185
<i>Oryctolagus cuniculus</i> ADIG	140	----	RCGSIVLKS	AFSVGIT-TS-----	Y-PEERLPI	IFNKVLEN-EG-EHYNPATGKF	185
<i>Tursiops truncatus</i> ADIG	192	----	RCGSIVLKS	AFSVGIT-TS-----	Y-PEERLPI	IFNKVLEN-EG-EHYNPATGKF	237
<i>Bos taurus</i> ADIG	140	----	RCGSIVLKS	AFSVGIT-TS-----	Y-PEERLPI	IFNKVLEN-EG-EHYNPATGKF	185
<i>Equus caballus</i> ADIG	181	----	KCGSIVLKS	AFSVGIT-TS-----	Y-PEERLPI	IFNKVLEN-EG-EHYNPATGKF	226
<i>Canis lupus familiaris</i> ADIG	181	----	RCGSIMLKS	AFSVGIT-TS-----	Y-PEERLPI	IFNKVLEN-EG-EHYNPATGKF	226
<i>Myotis lucifugus</i> ADIG	140	----	RCGSIVLKS	AFSVGIT-TS-----	Y-PEERLPI	IFNKVLEN-EG-EHYNPATGKF	185
<i>Homo sapiens</i> ADIH	142	----	SCGSGHTKS	AFSVAVT-KS-----	Y-PRERLPI	IKFDKILMN-EG-GHYNASSGKF	187
<i>Pan troglodytes</i> ADIH	142	----	SCGSGHTKS	AFSVAVT-KS-----	Y-PRERLPI	IKFDKILMN-EG-GHYNASSGKF	187
<i>Pongo abelii</i> ADIH	142	----	SCGSGHTKS	AFSVAVT-KS-----	Y-PRERLPI	IKFDKILMN-EG-GHYNASSGKF	187
<i>Nomascus leucogenys</i> ADIH	142	----	SCGSGHTKS	AFSVAVT-KS-----	Y-PRERLPI	IKFDKILMN-EG-GHYNASSGKF	187
<i>Macaca mulatta</i> ADIH	142	----	SCGSGHTKS	AFSVAVT-KS-----	Y-PRERLPI	IKFDKILMN-EG-GHYNASSGKF	187
<i>Papio hamadryas</i> ADIH	142	----	SCGSGHTKS	AFSVAVT-KS-----	Y-PRERLPI	IKFDKILMN-EG-GHYNASSGKF	187
<i>Mus musculus</i> Adih	149	----	SCGSSRAKS	AFSVAVT-KS-----	Y-PRERLPI	IKFDKILMN-EG-GHYNASSGKF	194
<i>Rattus norvegicus</i> Adih	186	----	SCGSSRAKS	AFSVAVT-KS-----	Y-PRERLPI	IKFDKILMN-EG-GHYNASSGKF	231
<i>Dipodomys ordii</i> ADIH	142	----	SCGSGRAKS	AFSVAVT-KS-----	Y-PRERLPI	IKFDKILMN-EG-GHYNASSGKF	187
<i>Cavia porcellus</i> ADIH	142	----	SCGSGRPKS	AFSVAVT-KS-----	Y-PRERLPI	IKFDKILMN-EG-GHYNASSGKF	187
<i>Bos taurus</i> ADIH	159	----	SCGSSHAKS	AFSVAVT-KS-----	Y-PRERLPI	IKFDKILMN-EG-GHYNASSGKF	204
<i>Equus caballus</i> ADIH	142	----	SCGSGRAKS	AFSVAVT-KS-----	Y-PRERLPI	IKFDKILMN-EG-GHYNASSGKF	187
<i>Canis lupus familiaris</i> ADIH	142	----	SCGSGHAKS	AFSVAVT-KS-----	Y-PRERLPI	IKFDKILMN-EG-GHYNASSGKF	187
<i>Pteropus vampyrus</i> ADIH	142	----	SCSSGHAKS	AFSVAVT-KS-----	Y-PRERLPI	IKFDKILMN-EG-SHYNASSGKF	187
<i>Loxodonta africana</i> ADIH	142	----	SCGSARAKS	AFSVAVT-KS-----	Y-PRERLPI	IKFDKILMN-EG-GHYNASSGKF	187
<i>Homo sapiens</i> ADII	152	AT-FS----	GPKIAFYVGLKSP-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	195	
<i>Pongo abelii</i> ADII	152	AT-FS----	GPKIAFYVGLKSP-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	195	
<i>Macaca mulatta</i> ADII	152	AT-FS----	GPKIAFYVGLKSP-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	195	
<i>Mus musculus</i> Adii	152	AA-FS----	GPKIAFYVGLKSP-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	195	
<i>Rattus norvegicus</i> Adii	152	AA-FS----	GPKIAFYVGLKSP-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	195	
<i>Bos taurus</i> ADII	152	AA-FS----	GPKIAFYVGLKSP-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	195	
<i>Canis lupus familiaris</i> ADII	152	AA-FS----	GPKIAFYVGLKSP-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	195	
<i>Dasyopus novemcinctus</i> ADII	152	AA-FS----	GPKIAFYVGLKSP-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	195	
<i>Homo sapiens</i> ADIJ	118	AATYS---	TVPKIAFYAGLKRQ-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	163	
<i>Pan troglodytes</i> ADIJ	118	AATYS---	TVPKIAFYAGLKRQ-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	163	
<i>Papio hamadryas</i> ADIJ	118	AATYS---	TVPKIAFYAGLKRQ-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	163	
<i>Mus musculus</i> Adij	118	AATYS---	TVPKIAFYAGLKRQ-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	163	
<i>Rattus norvegicus</i> Adij	118	AATYS---	TVPKIAFYAGLKRQ-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	163	
<i>Oryctolagus cuniculus</i> ADIJ	118	AATYS---	TVPKIAFYAGLKRQ-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	163	
<i>Bos taurus</i> ADIJ	118	AATYS---	TVPKIAFYAGLKRQ-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	163	
<i>Canis lupus familiaris</i> ADIJ	118	AATYS---	TVPKIAFYAGLKRQ-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	163	
<i>Loxodonta africana</i> ADIJ	118	AATYS---	TVPKIAFYAGLKRQ-H--E----	GYEV-LKF	DDVVTNL-G-NHYDPTTGKF	163	
<i>Homo sapiens</i> ADIK	103	AAGY----	VPRIAFYAGLRRP-H--E----	GYEV-LRF	DDVVTNV-G-NAYEAASGKF	146	
<i>Pan troglodytes</i> ADIK	103	AAGY----	VPRIAFYAGLRRP-H--E----	GYEV-LRF	DDVVTNV-G-NAYEAASGKF	146	
<i>Gorilla gorilla</i> ADIK	103	AARY----	VPRIAFYAGLRRP-H--E----	GYEV-LRF	DDVVTNV-G-NAYEAASGKF	146	
<i>Papio hamadryas</i> ADIK	103	AAGY----	VPRIAFYAGLRRP-H--E----	GYEV-LRF	DDVVTNV-G-NAYEAASGKF	146	
<i>Callithrix jacchus</i> ADIK	103	PAGY----	VPRIAFYAGLRRP-H--E----	GYEV-LRF	DDVVTNV-G-NAYEAASGKF	146	
<i>Rattus norvegicus</i> Adik	103	PAGY----	VPRIAFYAGLRRP-H--E----	GYEV-LRF	DDVVTNV-G-NAYEAASGKF	146	
<i>Cavia porcellus</i> ADIK	103	PAGY----	VPRIAFYAGLRRP-H--E----	GYEV-LRF	DDVVTNV-G-NAYEAASGKF	146	
<i>Equus caballus</i> ADIK	103	PAGY----	VPRIAFYAGLRRP-H--E----	GYEV-LRF	DDVVTNV-G-NAYEAASGKF	146	
<i>Canis lupus familiaris</i> ADIK	103	PAGY----	VPRIAFYAGLRRP-H--E----	GYEV-LRF	DDVVTNV-G-NAYEAASGKF	146	
<i>Dasyopus novemcinctus</i> ADIK	103	PAGY----	MPRIAFYAGLRRP-H--E----	GYEV-LRF	DDVVTNV-G-NAYEAASGKF	146	
<i>Loxodonta africana</i> ADIK	103	PAGY----	VPRIAFYAGLRRP-H--E----	GYEV-LRF	DDVVTNV-G-NAYEAASGKF	146	
<i>Mus musculus</i> Adil	121	TATYT---	TVPRVAFYAGLKNP-H--E----	GYEV-LKF	DDVVTNL-G-NNYDAASGKF	166	
<i>Rattus norvegicus</i> Adil	121	TATYT---	TVPRVAFYAGLKNP-H--E----	GYEV-LKF	DDVVTNL-G-NNYDAASGKF	166	
<i>Homo sapiens</i> ADIM	225	-----	PELQIAFEMASLAT--HFSN----	QNSG-III	FSSVETNI-G-NFFDVMTGKF	266	
<i>Pan troglodytes</i> ADIM	225	-----	PELQIAFEMASLAT--HFSN----	QNSG-III	FSSVETNI-G-NFFDVMTGKF	266	

<i>Pongo abelii</i> ADIM	181	-----PELQIAFMASLAT--HFSN-----QNSG-IIFSSVETNI-G-NFFDVMTCGRF	222
<i>Nomascus leucogenys</i> ADIM	225	-----PELQIAFMASLAT--HFSN-----QNSG-IIFSSVETNI-G-NFFDVMTCGRF	266
<i>Papio hamadryas</i> ADIM	225	-----PELQIAFMASLAT--HFSN-----QNSG-IIFSSVETNI-G-NFFDVMTCGRF	266
<i>Callithrix jacchus</i> ADIM	215	-----PELQIAFMASLAT--HFSN-----QNSG-IIFSSVETNI-G-NFFDVMTCGRF	256
<i>Mus musculus</i> Adim	114	-----PELQIAFMASLAT--HFSN-----QNSG-IIFSSVETNI-G-NFFDVMTCGRF	155
<i>Rattus norvegicus</i> Adim	188	-----PELQIAFMASLAT--HFSN-----QNSG-IIFSSVETNI-G-NFFDVMTCGRF	229
<i>Cavia porcellus</i> ADIM	181	-----PELQIAFMASLAT--HFTN-----QNSG-IIFSSVETNI-G-NFFDVMTCGRF	222
<i>Bos taurus</i> ADIM	114	-----PELQIAFMASLAT--HFTN-----QNSG-IIFSSVETNI-G-NFFDVMTCGRF	155
<i>Equus caballus</i> ADIM	114	-----PELQIAFMASLAT--HFTN-----QNSG-IIFSSVETNI-G-NFFDVMTCGRF	155
<i>Canis lupus familiaris</i> ADIM	175	-----PELQIAFMASLAT--HFSN-----QNSG-IIFSSVETNI-G-NFFDVMTCGRF	216
<i>Homo sapiens</i> ADIN	172	P-----PEPRSAFSAARTRSLVGS DAGPGRHQ-PLAFDTEFVNIGG--DFDAAAAGVF	221
<i>Pan troglodytes</i> ADIN	172	P-----PEPRSAFSAARTRSLVGS DAGPGRHR-PLAFDTEFVNIGG--DFDAAAAGVF	221
<i>Pongo abelii</i> ADIN	172	P-----PEPRSAFSAARTRSLVGS DAGPGRHR-PLAFDTEFVNIGG--DFDAAAAGVF	221
<i>Nomascus leucogenys</i> ADIN	167	P-----PEPRSAFSAARTRSLVGS DAGPGRHR-PLAFDTEFVNIGG--DFDAAAAGVF	216
<i>Macaca mulatta</i> ADIN	174	P-----PEPRSAFSAARTRSLVGS DAGSGRHR-PLSEFDELVNIGG--DFDAAAAGVF	223
<i>Callithrix jacchus</i> ADIN	172	P-----PEPRSAFSAARTHSLVGS DASPGRHR-PLAFDELVNIGG--DFDAAAAGVF	221
<i>Mus musculus</i> Adin	170	A-----PEPRSAFSAARTRSLVGS DAAPGRHR-PLAFDELVNIGG--DFDAAAAGVF	219
<i>Cavia porcellus</i> ADIN	182	P-----SQPRSAFSAARTRSLVGS DAGPGRHR-PLAFDELVNIGG--DFDAAAAGVF	231
<i>Tursiops truncatus</i> ADIN	168	P-----PEPRSAFSAARTRSLVGS DAGPGRHR-PLAFDELVNIGG--DFDAAAAGVF	217
<i>Canis lupus familiaris</i> ADIN	168	P-----PEPRSAFSAARTRSLVGS DAGPGRHR-PLAFDELVNIGG--DFDAAAAGVF	217
<i>Dasyops novemcinctus</i> ADIN	168	P-----PEPRSAFSAARTRSLVGS DAGPGRHR-PLAFDELVNIGG--DFDAAAAGVF	217
<i>Loxodonta africana</i> ADIN	168	P-----PEPRSAFSAARTRSLVGS DSGPGRHR-PLAFDELVNIGG--DFDAAAAGVF	217
<i>Homo sapiens</i> ADIO	112	----C--RRAYAAFSVGRREGLHSSD-----HFQA-VEFDELVNLDG--AFDLAAGRF	156
<i>Pan troglodytes</i> ADIO	112	----C--QRAYAAFSVGRREGLHSSD-----HFQA-VEFDELVNLDG--AFDLAAGRF	156
<i>Macaca mulatta</i> ADIO	107	----C--QRAYAAFSVGRREGLHSSD-----DFQA-VEFDELVNLDG--AFDLAAGRF	151
<i>Bos taurus</i> ADIO	111	----C--PRAYAAFSVGRREGLHSAD-----ALQA-VTEDELVNLDG--AFDLASGRF	155
<i>Myotis lucifugus</i> ADIO	111	----C--QRAYAAFSVGRREGLHSTD-----AFQA-VEFDELVNLDG--AFDLASGRF	155
<i>Homo sapiens</i> ADIP	239	----C--KSHYAAFSVGRKKPMHSNH-----YYQT-VIEFDELVNLYD--HFNMFYTKGF	283
<i>Otolemur garnettii</i> ADIP	141	----C--KNHYAAFSVGRKKPLHSND-----YYQT-VVEFTEFVNLYG--HFNMFYTKGF	185
<i>Mus musculus</i> Adip	141	----C--KSQYAAFSVGRKKALHSND-----YFQP-VVEFTEFVNLYK--HFNMFYTKGF	185
<i>Cavia porcellus</i> ADIP	141	----C--KNYAAFSVGRKKPLHSND-----YYQT-VVEFTEFVNLYG--HFNMFYTKGF	185
<i>Bos taurus</i> ADIP	164	----C--KNHYAAFSVGRKKPLHSND-----YYQT-VIEFTEFVNLYS--HFNMFYTKGF	208
<i>Equus caballus</i> ADIP	139	----C--KNHYAAFSVGRKKPLHSND-----YYQT-VIEFTEFVNLYD--HFNMFYTKGF	183
<i>Loxodonta africana</i> ADIP	193	----C--KNHYAAFSVGRKKPLHSND-----YYQT-VVEFTEFVNLYG--HFNMFYTKGF	237
<i>Homo sapiens</i> ADIQ	139	----C--QKRFFAFSVGRKKTALHSGE-----DFQT-LLEFERVFNLDGCG--FDMATGQF	183
<i>Pan troglodytes</i> ADIQ	139	----C--QKRFFAFSVGRKKTALHSGE-----DFQT-LLEFERVFNLDGCG--FDMATGQF	183
<i>Pongo abelii</i> ADIQ	139	----C--QKRFFAFSVGRKKTALHSGD-----DFQT-LLEFERVFNLDGCG--FDMATGQF	183
<i>Nomascus leucogenys</i> ADIQ	139	----C--QKRFFAFSVGRKKTALHSGE-----DFQT-LLEFERVFNLDGCG--FDMVYTKGF	183
<i>Macaca mulatta</i> ADIQ	139	----C--QKRFFAFSVGRKKTALHSGE-----DFQR-LLEFERVFNLDGCG--FDMAAGHF	183
<i>Mus musculus</i> Adiq	125	----C--QTHYSAFSVGRKKTGLHSSE-----NFLS-LLEFDRVFNVDGHH--FDMATGSE	169
<i>Rattus norvegicus</i> Adiq	124	----C--QTHYSAFSVGRKKTGLHSSE-----NFLS-LLEFDRVFNVDGHH--FDMATGSE	168
<i>Homo sapiens</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Pan troglodytes</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Pongo abelii</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Nomascus leucogenys</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Macaca mulatta</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Papio hamadryas</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Callithrix jacchus</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Tarsius syrichta</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Otolemur garnettii</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Tupaia belangeri</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Mus musculus</i> Adir	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Rattus norvegicus</i> Adir	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Cavia porcellus</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Oryctolagus cuniculus</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Tursiops truncatus</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Bos taurus</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Equus caballus</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Canis lupus familiaris</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Myotis lucifugus</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Pteropus vampyrus</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Erinaceus europaeus</i> ADIR	1	P-----MRVAFSAARTSNL-----T-PGTLDQ-PIVEDLLINNLGE--TFDLQLGRF	42
<i>Dasyops novemcinctus</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Choloepus hoffmanni</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68
<i>Loxodonta africana</i> ADIR	24	P-----QQMRVAFSAARTSNL-----A-PGTLDQ-PIVEDLLLNNLGE--TFDLQLGRF	68

<i>Homo sapiens</i> ADIA	161	-TCKVPLG	730	YFTYH	740	-----AS--SRGNLCV	750	NLMRG--RERAQKVV	760	TFC--DYAY	770	-----	780	202
<i>Homo sapiens</i> ADIA	161	-TCKVPG	730	LYFTYH	740	-----AS--SRGNLCV	750	NLMRG--RERAQKVV	760	TFC--DYAY	770	-----	780	202
<i>Papio hamadryas</i> ADIA	161	-TCKVPG	730	LYFTYH	740	-----AS--SRGNLCV	750	NLMRG--RERPKVV	760	TFC--DYAY	770	-----	780	202
<i>Mus musculus</i> Adia	188	-TCKVPG	730	LYFTYH	740	-----AS--SRGNLCV	750	NLMRG--RERPKVV	760	TFC--DYAQ	770	-----	780	231
<i>Rattus norvegicus</i> Adia	159	-TCKVPG	730	LYFTYH	740	-----AS--SRGNLCV	750	NLMRG--RERPKVV	760	TFC--DYAQ	770	-----	780	202
<i>Cavia porcellus</i> ADIA	159	-TCKVPG	730	LYFTYH	740	-----AS--SRGNLCV	750	NLMRG--REHLKVV	760	TFC--DYVR	770	-----	780	200
<i>Ochotona princeps</i> ADIA	159	-TCKVPG	730	LYFTYH	740	-----AS--SRGNLCV	750	NLMRG--LERMEKVV	760	TFC--DYSI	770	-----	780	200
<i>Bos taurus</i> ADIA	155	-TCKVPG	730	LYFTYH	740	-----AS--SRGQLCV	750	DLMRG--RAEPQVV	760	TFC--DYVQ	770	-----	780	196
<i>Equus caballus</i> ADIA	160	-TCKVPG	730	LYFAYH	740	-----AS--SRGNLCV	750	NLMRG--RERIQVV	760	TFC--DFVH	770	-----	780	201
<i>Canis lupus familiaris</i> ADIA	158	-TCKVPG	730	LYFAYH	740	-----AS--SRGNLCV	750	NLMRG--RERMQVV	760	TFC--DYVQ	770	-----	780	199
<i>Felis catus</i> ADIA	162	-TCKVPG	730	LYFTYH	740	-----AS--SRGNLCV	750	NLMRG--REQMQVV	760	TFC--DYVH	770	-----	780	203
<i>Myotis lucifugus</i> ADIA	159	-TCKVPG	730	LYFTYH	740	-----AS--SRGNLCV	750	NLMRG--LERMEKVV	760	TFC--DYVQ	770	-----	780	200
<i>Dasyopus novemcinctus</i> ADIA	156	-TCKVPG	730	LYFTFH	740	-----AS--SRGNLCV	750	NLMRG--RERPKVV	760	TFC--DFVH	770	-----	780	197
<i>Loxodonta africana</i> ADIA	159	-TCKVPG	730	LYFTYH	740	-----AS--SRGNLCV	750	NLMRG--RERVQVV	760	TFC--DYVQ	770	-----	780	200
<i>Homo sapiens</i> ADIB	159	-TCKVPG	730	LYFVYH	740	-----AS--HTANLCV	750	LLYR----SGVKVV	760	TFC--GHTS	770	-----	780	197
<i>Pan troglodytes</i> ADIB	159	-TCKVPG	730	LYFVYH	740	-----AS--HTANLCV	750	LLYR----SGVKVV	760	TFC--GHTS	770	-----	780	197
<i>Pongo abelii</i> ADIB	159	-TCKVPG	730	LYFVYH	740	-----AS--HTANLCV	750	LLYR----SGVKVV	760	TFC--GHTS	770	-----	780	197
<i>Nomascus leucogenys</i> ADIB	160	-TCKVPG	730	LYFVYH	740	-----AS--HTANLCV	750	LLYR----SGVKVV	760	TFC--GHTS	770	-----	780	198
<i>Callithrix jacchus</i> ADIB	158	-TCKVPG	730	LYFVYH	740	-----TS--QTANLCV	750	LLYR----NGVKVV	760	TFC--DHMS	770	-----	780	196
<i>Otolemur garnettii</i> ADIB	157	-TCKVPG	730	LYFVYH	740	-----TS--QTANLCV	750	LLYR----NNVRVV	760	TFC--DHMS	770	-----	780	195
<i>Mus musculus</i> Adib	190	-TCKVPG	730	LYFVYY	740	-----TS--HTANLCV	750	HLLN----NLARVAS	760	TFC--DHMF	770	-----	780	228
<i>Rattus norvegicus</i> Adib	182	-TCKVPG	730	LYFVHH	740	-----TS--QTANLCV	750	QLLL----NNAKVV	760	TFC--DHMS	770	-----	780	220
<i>Cavia porcellus</i> ADIB	206	-TCKVPG	730	LYFIYH	740	-----TS--LTENLCV	750	QLYH----DNVKVV	760	TFC--EHLVQGN	770	-----	780	247
<i>Oryctolagus cuniculus</i> ADIB	212	-TCKVPG	730	LYFVHH	740	-----TS--HTANLCV	750	QLYH----NGARVTA	760	TFC--DHMA	770	-----	780	250
<i>Bos taurus</i> ADIB	157	-TCKVPG	730	LYFVFH	740	-----TS--HTSNLCV	750	LLYR----SGFKVAT	760	TFC--DHMT	770	-----	780	195
<i>Equus caballus</i> ADIB	177	-TCKVPG	730	LYFAHH	740	-----TS--QTANLCV	750	QLYR----NGAKVTA	760	TFC--DHMS	770	-----	780	215
<i>Canis lupus familiaris</i> ADIB	159	-TCKVPG	730	LYFVYH	740	-----TS--LTSNLCV	750	HLYR----SGTRVV	760	TFC--DHMS	770	-----	780	197
<i>Myotis lucifugus</i> ADIB	159	-TCKVPG	730	LYFVHH	740	-----TS--QTANLCV	750	QLYR----NEIQM	760	TFC--DHMS	770	-----	780	197
<i>Loxodonta africana</i> ADIB	157	-TCKVPG	730	LYFVYH	740	-----TS--QTANLCV	750	QLYR----SGVKVV	760	TFC--DHMS	770	-----	780	195
<i>Homo sapiens</i> ADIC	152	-VCTVPG	730	YIYFTFQ	740	-----VL--SQWEICL	750	SIVSSS--RGQVRR	760	SLGFC--DTTN	770	-----	780	194
<i>Macaca mulatta</i> ADIC	152	-VCTVPG	730	YIYFTFQ	740	-----VV--SEREICL	750	SIVSSS--RGQVRR	760	SLGFC--DTTN	770	-----	780	194
<i>Papio hamadryas</i> ADIC	152	-VCTVPG	730	YIYFTFQ	740	-----VV--SEREICL	750	SIVSSS--RGQVRR	760	SLGFC--DTTN	770	-----	780	194
<i>Callithrix jacchus</i> ADIC	152	-VCAVPG	730	YIYFTFQ	740	-----VV--SKWDICL	750	FIASSS--RGQVRR	760	SLGFC--DANS	770	-----	780	194
<i>Mus musculus</i> Adic	152	-ICAVPG	730	YIYFNFQ	740	-----VI--SKWDICL	750	FIKSSS--GGQPRD	760	SLSFS--NTNN	770	-----	780	194
<i>Rattus norvegicus</i> Adic	164	-ICAVPG	730	YIYFTFQ	740	-----VI--SKWDICL	750	SIVSSS--RGQPRN	760	SLGFC--DTNS	770	-----	780	206
<i>Cavia porcellus</i> ADIC	152	-VCAVPG	730	YIYFSFY	740	-----VV--ATGSICL	750	TIVSSS--QGQLRH	760	SPGFC--DTNN	770	-----	780	194
<i>Oryctolagus cuniculus</i> ADIC	193	-VCAVPG	730	YIYFTFQ	740	-----VV--SKWDICL	750	FIVSAS--RGQTRR	760	SVGFC--DTNS	770	-----	780	235
<i>Equus caballus</i> ADIC	185	-VCSVPG	730	YIYFTFQ	740	-----VV--SKWDVCL	750	SIVSLR--RDQVRH	760	SLGFC--DTNS	770	-----	780	227
<i>Canis lupus familiaris</i> ADIC	171	-ICAVPG	730	YIYFTFQ	740	-----VV--SKWDICL	750	SIVSSG--RAQIRR	760	SLGFC--DTNS	770	-----	780	213
<i>Myotis lucifugus</i> ADIC	152	-VCAVPG	730	YIYFTFQ	740	-----VV--SKWDICL	750	SIMSSR--RGLTQR	760	SVGFC--DANS	770	-----	780	194
<i>Loxodonta africana</i> ADIC	167	-VCAVPG	730	YIYFTFQ	740	-----VV--SKRDICL	750	SIVSSG--RNHPRR	760	SLGFC--DTNS	770	-----	780	209
<i>Homo sapiens</i> ADID	182	-HCNIPG	730	LYFAYH	740	-----ITVYMKD	750	VK--VSLFK--KDK--	760	AMLFTY--DQYQE	770	-----	780	222
<i>Pan troglodytes</i> ADID	182	-HCNIPG	730	LYFAYH	740	-----ITVYMKD	750	VK--VSLFK--KDK--	760	AMLFTY--DQYQE	770	-----	780	222
<i>Pongo abelii</i> ADID	151	-HCNIPG	730	LYFAYH	740	-----ITVYMKD	750	VK--VSLFK--KDK--	760	AMLFTY--DQYQE	770	-----	780	191
<i>Nomascus leucogenys</i> ADID	181	-HCNIPG	730	LYFAYH	740	-----ITVYMKD	750	VK--VSLFK--KDK--	760	AMLFTY--DQYQE	770	-----	780	221
<i>Macaca mulatta</i> ADID	180	-HCNIPG	730	LYFAYH	740	-----ITVYMKD	750	VK--VSLFK--KDK--	760	AMLFTY--DQYQE	770	-----	780	220
<i>Otolemur garnettii</i> ADID	151	-LONIPG	730	LYFSYH	740	-----ITVYMKD	750	VK--VSLFK--KDK--	760	AVIVTY--DQYQD	770	-----	780	191
<i>Mus musculus</i> Adid	165	-YCNIPG	730	LYFSYH	740	-----ITVYMKD	750	VK--VSLFK--KDK--	760	AVLFTY--DQYQE	770	-----	780	205
<i>Rattus norvegicus</i> Adid	151	-HCNIPG	730	LYFSYH	740	-----ITVYMKD	750	VK--VSLFK--KDK--	760	AVLFTY--DQYQE	770	-----	780	191
<i>Cavia porcellus</i> ADID	193	-HCNIPG	730	LYFSYH	740	-----VTVYLKD	750	VK--VSLFR--NDK--	760	AELFTY--DQYQD	770	-----	780	233
<i>Oryctolagus cuniculus</i> ADID	161	-RCNIPG	730	LYFSYH	740	-----ITVYMKD	750	VK--VSLFK--KDK--	760	AMLFTY--DQYQD	770	-----	780	201
<i>Bos taurus</i> ADID	146	-LONIPG	730	LYFSYH	740	-----ITVYLKD	750	VK--VSLYK--NDK--	760	ALLFTH--DQFQD	770	-----	780	186
<i>Equus caballus</i> ADID	208	-HCNIPG	730	LYFSYH	740	-----ITVYLKD	750	VK--VSLYK--KDK--	760	AVLFTY--DQYQD	770	-----	780	248
<i>Canis lupus familiaris</i> ADID	160	-HCNIPG	730	LYFSYH	740	-----ITVYLKD	750	VK--VSLYK--KDK--	760	AMLFTY--DQYQE	770	-----	780	200
<i>Felis catus</i> ADID	151	-HCNIPG	730	LYFSYH	740	-----ITVYLKD	750	VK--VSLYK--RDK--	760	AMLFTY--DQYQE	770	-----	780	191
<i>Myotis lucifugus</i> ADID	160	-HCNIPG	730	LYFSYH	740	-----ITVYHKD	750	VK--VSLYK--KDK--	760	AVLFTY--DKYQD	770	-----	780	200
<i>Dasyopus novemcinctus</i> ADID	150	-HCNIPG	730	LYFSYH	740	-----ITVYMKD	750	VK--VSLFK--KDK--	760	AVLFTY--DQYQE	770	-----	780	190
<i>Loxodonta africana</i> ADID	151	-HCNIPG	730	VYFSYH	740	-----ITVYMKD	750	VK--VSLFK--KDK--	760	AVLFTY--DQYQE	770	-----	780	191
<i>Homo sapiens</i> ADIE	144	-TCKVPG	730	VYFAVH	740	-----ATVYRAS	750	LQ--FDLVK--NGE--	760	SIASFF--QFFGGW	770	-----	780	185
<i>Pan troglodytes</i> ADIE	144	-TCKVPG	730	VYFAVH	740	-----ATVYRAS	750	LQ--FDLVK--NGE--	760	SIASFF--QFFGGW	770	-----	780	185
<i>Pongo abelii</i> ADIE	144	-TCKVPG	730	VYFAVH	740	-----ATVYRAS	750	LQ--FDLVK--NGE--	760	SIASFF--QFFGGW	770	-----	780	185
<i>Papio hamadryas</i> ADIE	144	-TCKVPG	730	VYFAVH	740	-----ATVYRAS	750	LQ--FDLVK--NGE--	760	SIASFF--QFFGGW	770	-----	780	185
<i>Callithrix jacchus</i> ADIE	144	-TCKVPG	730	VYFAVH	740	-----ATVYRAS	750	LQ--FDLMK--NGE--	760	SIASFF--QFFGGW	770	-----	780	185
<i>Otolemur garnettii</i> ADIE	144	-TCKVPG	730	VYFAVH	740	-----ATVYRAS	750	LQ--FDLVK--NGV--	760	SIASFF--QFFGGW	770	-----	780	185
<i>Mus musculus</i> Adie	144	-TCKVPG	730	VYFAVH	740	-----ATVYRAS	750	LQ--FDLVK--NGQ--	760	SIASFF--QYFGGW	770	-----	780	185
<i>Rattus norvegicus</i> Adie	144	-TCKVPG	730	VYFAVH	740	-----ATVYRAS	750	LQ--FDLVK--NGQ--	760	SIASFF--QFFGGW	770	-----	780	185
<i>Homo sapiens</i> ADIF1	242	-TCHIAG	730	VYFTYH	740	-----ITVFSRN	750	VQ--VSLVK--NGV--	760	KILHTK--DAYM	770	-----	780	281
<i>Homo sapiens</i> ADIF2	242	-TCHIAG	730	VYFTYH	740	-----ITVFSRN	750	VQ--VSLVK--NGV--	760	KILHTR--DAYV	770	-----	780	281
<i>Pan troglodytes</i> ADIF1	242	-TCHIAG	730	VYFTYH	740	-----ITVFSRN	750	VQ--VSLVK--NRV--	760	KILHTK--DAYM	770	-----	780	281
<i>Pongo abelii</i> ADIF1	242	-TCHIAG	730	VYFTYH	740	-----ITVFSRN	750	VQ--VSLVK--NGV--	760	KILHTK--DAYM	770	-----	780	281
<i>Nomascus leucogenys</i> ADIF1	242	-TCHIAG	730	VYFTYH	740	-----ITVFSRN	750	VQ--VSLVK--NGV--	760	KILHTK--DAYM	770	-----	780	281
<i>Macaca mulatta</i> ADIF1	242	-TCHIAG	730	VYFTYH	740	-----ITVFSRN	750	VQ--VSLVK--NGV--	760	KILHTK--DAYM	770	-----	780	281
<i>Papio hamadryas</i> ADIF1	242	-TCHIAG	730	VYFTYH	740	-----ITVFSRN	750	VQ--VSLVK--NGV--	760	KILHTK--DAYM	770	-----	780	281

<i>Microcebus murinus</i> ADIF1	242	-TCHVAGVYFET	TYH-----ITVFSRNVQ-VSLVK---NGA-KVLHTK---DGYM---	281
<i>Otolemur garnettii</i> ADIF1	242	-VCHVAGVYFET	TYH-----ITVFSRNVQ-VSLVK---NGV-KILHTK---DGYM---	281
<i>Mus musculus</i> Adif1	271	-TCHVAGVYFET	TYH-----ITVFSRNVQ-VSLVK---NGV-KVLHTK---DSYM---	310
<i>Rattus norvegicus</i> Adif1	258	-TCHVAGVYFET	TYH-----ITVFSRNVQ-VSLVK---NGV-KVLHTK---DGYM---	297
<i>Cavia porcellus</i> ADIF1	242	-TCHVAGVYFET	TYH-----ITVFSRNVQ-VSLVK---NGV-KVLHTK---DGYM---	281
<i>Oryctolagus cuniculus</i> ADIF1	242	-TCHVAGVYFET	TYH-----ITVFSRNVQ-VSLVK---NGV-KVLHTK---DGYM---	281
<i>Ochotona princeps</i> ADIF1	242	-ICVYVAGVYFET	TYH-----ITVFSRNVQ-VSLVK---NGM-KVLHTK---DAYM---	281
<i>Bos taurus</i> ADIF1	242	-TCHVAGVYFET	TYH-----ITVFSRNVQ-VSLVK---NGA-KVLHTK---DGYT---	281
<i>Equus caballus</i> ADIF1	242	-TCHVAGVYFET	TYH-----ITVFSRNVQ-VSLVK---NGV-KILHTK---DGYT---	281
<i>Canis lupus familiaris</i> ADIF1	242	-TCHVAGVYFET	TYH-----ITVFSRNVQ-VSLVK---NGV-KILHTK---DSYM---	281
<i>Felis catus</i> ADIF1	242	-TCHVAGVYFET	TYH-----ITVFSRNVQ-VSLVK---NGV-KILHTK---DGYM---	281
<i>Dasyopus novemcinctus</i> ADIF1	243	-TCHVAGVYFET	TYH-----ITVFSRNVQ-VSLVK---NGV-KVLHTK---DSYM---	282
<i>Loxodonta africana</i> ADIF1	242	-TCHVAGVYFET	TYH-----ITVFSRNVQ-VSLVK---NGV-KVLHTK---DGYL---	281
<i>Homo sapiens</i> ADIG	240	-ICAFPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIKTF---DANTG--	280
<i>Pan troglodytes</i> ADIG	240	-ICAFPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIKTF---DANTG--	280
<i>Pongo abelii</i> ADIG	240	-ICAFPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIKTF---DANTG--	280
<i>Callithrix jacchus</i> ADIG	226	-ICAFPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIKTF---DANTG--	266
<i>Otolemur garnettii</i> ADIG	186	-ICAFPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIKTF---DANTG--	226
<i>Mus musculus</i> Adig	228	-ICAFPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	268
<i>Rattus norvegicus</i> Adig	229	-ICAFPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	269
<i>Cavia porcellus</i> ADIG	186	-ICAFPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIKTF---DANTG--	226
<i>Oryctolagus cuniculus</i> ADIG	186	-ICAFPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	226
<i>Tursiops truncatus</i> ADIG	238	-ICAFPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIKTF---DANTG--	278
<i>Bos taurus</i> ADIG	186	-ICAFPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIKTF---DANTG--	226
<i>Equus caballus</i> ADIG	227	-ICAFPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIKTF---DANTG--	267
<i>Canis lupus familiaris</i> ADIG	227	-ICAFPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIKTF---DANTG--	267
<i>Myotis lucifugus</i> ADIG	186	-ICAFPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIKTF---DANTG--	226
<i>Homo sapiens</i> ADIH	188	-VCGVPGIYFET	TYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	228
<i>Pan troglodytes</i> ADIH	188	-VCGVPGIYFET	TYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	228
<i>Pongo abelii</i> ADIH	188	-VCGVPGIYFET	TYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	228
<i>Nomascus leucogenys</i> ADIH	188	-VCGVPGIYFET	TYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	228
<i>Macaca mulatta</i> ADIH	188	-VCGVPGIYFET	TYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	228
<i>Papio hamadryas</i> ADIH	188	-VCGVPGIYFET	TYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	228
<i>Mus musculus</i> Adih	195	-VCSVPGIYFET	TYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	235
<i>Rattus norvegicus</i> Adih	232	-VCSVPGIYFET	TYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	272
<i>Dipodomys ordii</i> ADIH	188	-VCGVPGVYFET	TYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	228
<i>Cavia porcellus</i> ADIH	188	-ICGVPGIYFET	TYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	228
<i>Bos taurus</i> ADIH	205	-VCGVPGIYFET	TYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	245
<i>Equus caballus</i> ADIH	188	-VCGVPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	228
<i>Canis lupus familiaris</i> ADIH	188	-VCGVPGIYFET	SYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	228
<i>Pteropus vampyrus</i> ADIH	188	-VCSVPGIYFET	TYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	228
<i>Loxodonta africana</i> ADIH	188	-VCGVPGIYFET	TYD-----ITLANKHLA-IGLVH---NGQ-YRIRTF---DANTG--	228
<i>Homo sapiens</i> ADII	196	-SQQVRGIYFET	TYHILMRGGDGTSMW-ADL-C---K---NGQ-VRASAI-AQADQ---	240
<i>Pongo abelii</i> ADII	196	-SQQVRGIYFET	TYHILMRGGDGTSMW-ADL-C---K---NGQ-VRASAI-AQADQ---	240
<i>Macaca mulatta</i> ADII	196	-SQQVRGIYFET	TYHILMRGGDGTSMW-ADL-C---K---NGQ-VRASAI-AQADQ---	240
<i>Mus musculus</i> Adii	196	-SQQVRGIYFET	TYHILMRGGDGTSMW-ADL-C---K---NGQ-VRASAI-AQADQ---	240
<i>Rattus norvegicus</i> Adii	196	-SQQVRGIYFET	TYHILMRGGDGTSMW-ADL-C---K---NGQ-VRASAI-AQADQ---	240
<i>Bos taurus</i> ADII	196	-SQQVRGIYFET	TYHILMRGGDGTSMW-ADL-C---K---NGQ-VRASAI-AQADQ---	240
<i>Canis lupus familiaris</i> ADII	196	-SQQVRGIYFET	TYHILMRGGDGTSMW-ADL-C---K---NGQ-VRASAI-AQADQ---	240
<i>Dasyopus novemcinctus</i> ADII	196	-SQQVRGIYFET	TYHILMRGGDGTSMW-ADL-C---K---NGQ-VRASAI-AQADQ---	240
<i>Homo sapiens</i> ADIJ	164	-TCSIPGIYFET	TYHVLMRGGDGTSMW-ADL-C---K---NNQ-VRASAI-AQADQ---	208
<i>Pan troglodytes</i> ADIJ	164	-TCSIPGIYFET	TYHVLMRGGDGTSMW-ADL-C---K---NNQ-VRASAI-AQADQ---	208
<i>Papio hamadryas</i> ADIJ	164	-TCSIPGIYFET	TYHVLMRGGDGTSMW-ADL-C---K---NNQ-VRASAI-AQADQ---	208
<i>Mus musculus</i> Adij	164	-TCSIPGIYFET	TYHVLMRGGDGTSMW-ADL-C---K---NNQ-VRASAI-AQADQ---	208
<i>Rattus norvegicus</i> Adij	164	-TCSIPGIYFET	TYHVLMRGGDGTSMW-ADL-C---K---NNQ-VRASAI-AQADQ---	208
<i>Oryctolagus cuniculus</i> ADIJ	164	-TCSIPGIYFET	TYHVLMRGGDGTSMW-ADL-C---K---NNQ-VRASAI-AQADQ---	208
<i>Bos taurus</i> ADIJ	164	-TCSIPGIYFET	TYHVLMRGGDGTSMW-ADL-C---K---NNQ-VRASAI-AQADQ---	208
<i>Canis lupus familiaris</i> ADIJ	164	-TCSIPGIYFET	TYHVLMRGGDGTSMW-ADL-C---K---NNQ-VRASAI-AQADQ---	208
<i>Loxodonta africana</i> ADIJ	164	-TCSIPGIYFET	TYHVLMRGGDGTSMW-ADL-C---K---NNQ-VRASAI-AQADQ---	208
<i>Homo sapiens</i> ADIK	147	-TCPMPGVYFET	FAYHVLMRGGDGTSMW-ADL----MK---NGQ-VRASAI-AQADQ---	191
<i>Pan troglodytes</i> ADIK	147	-TCPMPGVYFET	FAYHVLMRGGDGTSMW-ADL----MK---NGQ-VRASAI-AQADQ---	191
<i>Gorilla gorilla</i> ADIK	147	-TCPMPGVYFET	FAYHVLMRGGDGTSMW-ADL----MK---NGQ-VRASAI-AQADQ---	191
<i>Papio hamadryas</i> ADIK	147	-TCPMPGVYFET	FAYHVLMRGGDGTSMW-ADL----MK---NGQ-VRASAI-AQADQ---	191
<i>Callithrix jacchus</i> ADIK	147	-TCPMPGVYFET	FAYHVLMRGGDGTSMW-ADL----MK---NGQ-VRASAI-AQADQ---	191
<i>Rattus norvegicus</i> Adik	147	-TCPMPGVYFET	FAYHVLMRGGDGTSMW-ADL----MK---NGQ-VRASAI-AQADQ---	191
<i>Cavia porcellus</i> ADIK	147	-TCPMPGVYFET	FAYHVLMRGGDGTSMW-ADL----MK---NGQ-VRASAI-AQADQ---	191
<i>Equus caballus</i> ADIK	147	-TCPMPGVYFET	FAYHVLMRGGDGTSMW-ADL----MK---NGQ-VRASAI-AQADQ---	191
<i>Canis lupus familiaris</i> ADIK	147	-TCPMPGVYFET	FAYHVLMRGGDGTSMW-ADL----MK---NGQ-VRASAI-AQADQ---	191
<i>Dasyopus novemcinctus</i> ADIK	147	-TCPMPGVYFET	FAYHVLMRGGDGTSMW-ADL----MK---NGQ-VRASAI-AQADQ---	191
<i>Loxodonta africana</i> ADIK	147	-TCPMPGVYFET	FAYHVLMRGGDGTSMW-ADL----MK---NGQ-VRASAI-AQADQ---	191
<i>Mus musculus</i> Adil	167	-TCSIPGTYFET	TYHVLMRGGDGTSMW-ADL-C---K---NGQ-VRASAI-AQADQ---	211
<i>Rattus norvegicus</i> Adil	167	-TCSIPGTYFET	TYHVLMRGGDGTSMW-ADL-C---K---NGQ-VRASAI-AQADQ---	211
<i>Homo sapiens</i> ADIM	267	GA-PVSGVYFET	FYSM-MKHEDVEEYV-----VYLMH---NGN-TVFSMY--SYEM---	308
<i>Pan troglodytes</i> ADIM	267	GA-PVSGVYFET	FYSM-MKHEDVEEYV-----VYLMH---NGN-TVFSMY--SYEM---	308

<i>Pongo abelii</i> ADIM	223	GA-PVSGVYFF	TFSM-MKHEDVEEVY-----	VYLMH---	NGN-TVFSMY--	SYEM----	264
<i>Nomascus leucogenys</i> ADIM	267	GA-PVSGVYFF	TFSM-MKHEDVEEVY-----	VYLMH---	NGN-TVFSMY--	SYEM----	308
<i>Papio hamadryas</i> ADIM	267	GA-PVSGVYFF	TFSM-MKHEDVEEVY-----	VYLMH---	NGN-TVFSMY--	SYEM----	308
<i>Callithrix jacchus</i> ADIM	257	GA-PVSGVYFF	TFSM-MKHEDVEEVY-----	VYLMH---	NGN-TVFSMY--	SYET----	298
<i>Mus musculus</i> Adim	156	GA-PVSGVYFF	TFSM-MKHEDVEEVY-----	VYLMH---	NGN-TVFSMY--	SYET----	197
<i>Rattus norvegicus</i> Adim	230	GA-PVSGVYFF	TFSM-MKHEDVEEVY-----	VYLMH---	NGN-TVFSMY--	SYET----	271
<i>Cavia porcellus</i> ADIM	223	GA-PVSGVYFF	TFSM-MKHEDVDEVY-----	VYLMH---	NGN-TVFSMY--	SYET----	264
<i>Bos taurus</i> ADIM	156	GA-PVSGVYFF	TFSM-MKHEDVEEVY-----	VYLMH---	NGN-TVFSMY--	SYET----	197
<i>Equus caballus</i> ADIM	156	GA-PVSGVYFF	TFSM-MKHEDVEEVY-----	VYLMH---	NGN-TVFSMY--	SYET----	197
<i>Canis lupus familiaris</i> ADIM	217	GA-PVSGVYFF	TFSM-MKHEDVEEVY-----	VYLMH---	NGN-TVFSMY--	SYET----	258
<i>Homo sapiens</i> ADIN	222	-RRLPGAYFF	SFTLG-KLPRK-TLS-----	VKLMK---	NRDEVQAMIY--	DDGAS---	264
<i>Pan troglodytes</i> ADIN	222	-RRLPGAYFF	SFTLG-KMPRK-TLS-----	VKLMK---	NRDEVQAMIY--	DDGAS---	264
<i>Pongo abelii</i> ADIN	222	-RRLPGAYFF	SFTLG-KLPRK-TLS-----	VKLMK---	NRDEVQAMIY--	DDGAS---	264
<i>Nomascus leucogenys</i> ADIN	217	-RRLPGAYFF	SFTLG-KLPRK-TLS-----	VKLMK---	NRDEVQAMIY--	DDGAS---	259
<i>Macaca mulatta</i> ADIN	224	-RRLPGAYFF	SFTLG-KLPRK-TLS-----	VKLMK---	NRDEVQAMIY--	DDGAS---	266
<i>Callithrix jacchus</i> ADIN	222	-RRLPGAYFF	SFTLG-KLPRK-TLS-----	VKLMK---	NRDEVQAMIY--	DDGAS---	264
<i>Mus musculus</i> Adin	220	-RRLPGAYFF	SFTLG-KLPRK-TLS-----	VKLMK---	NRDEVQAMIY--	DDGAS---	262
<i>Cavia porcellus</i> ADIN	232	-RRLPGAYFF	SFTLG-KMPRK-TLS-----	VKLMK---	NRDEVQAMIY--	DDGAS---	274
<i>Tursiops truncatus</i> ADIN	218	-RRLPGAYFF	SFTLG-KLPRK-TLS-----	VKLMK---	NRDEVQAMIY--	DDGTS---	260
<i>Canis lupus familiaris</i> ADIN	218	-RRLPGAYFF	SFTLG-KLPRK-TLS-----	VKLMK---	NRDEVQAMIY--	DDGAS---	260
<i>Dasyops novemcinctus</i> ADIN	218	-RRLPGAYFF	SFTLG-KLPRK-TLS-----	VKLMK---	NRDEVQAMIY--	DDGAS---	260
<i>Loxodonta africana</i> ADIN	218	-RRLPGAYFF	SFTLG-KLPRK-TLS-----	VKLMK---	NRDEVQAMIY--	DDGGS---	260
<i>Homo sapiens</i> ADIO	157	-LCTVPGVYFL	SLNVH-TWNYKET-Y-----	LHIML---	NRRPA-AVLY-AQPSE----	198	
<i>Pan troglodytes</i> ADIO	157	-LCTVPGVYFL	SLNVH-TWNYKET-Y-----	LHVML---	NRRPA-AVLY-AQPSE----	198	
<i>Macaca mulatta</i> ADIO	152	-LCTVPGVYFL	SLNVH-TWNYKET-Y-----	LHIML---	NRRPA-AVLY-AQPSE----	193	
<i>Bos taurus</i> ADIO	156	-FCTAPGVYFL	SLNVH-TWNYKET-Y-----	LHIMR---	NARAA-AVLY-AQPSE----	197	
<i>Myotis lucifugus</i> ADIO	156	-LCIVPGVYFL	SLTVH-TWNYKET-Y-----	LHIMC---	NQQA-AVLY-AQPSE----	197	
<i>Homo sapiens</i> ADIP	284	-YCYVPGIYFF	SLNVH-TWNQKET-Y-----	LHIMK---	NEEEV-VILF-AQVGD----	325	
<i>Otolemur garnettii</i> ADIP	186	-YCYVPGIYFF	SLNVH-TWNQKET-Y-----	LHIMR---	NAAEV-VILY-AQVSD----	227	
<i>Mus musculus</i> Adip	186	-YCYVPGIYFF	SLNVH-TWNQKET-Y-----	LHIMK---	NEEEV-VILY-AQVSD----	227	
<i>Cavia porcellus</i> ADIP	186	-YCYVPGIYFF	SLNVH-TWNQKET-Y-----	LHIMR---	NAAEV-VILY-AQVSD----	227	
<i>Bos taurus</i> ADIP	209	-YCYVPGIYFF	SLNVH-TWNQKET-Y-----	LHIMK---	NAAEV-VILY-AQVSD----	250	
<i>Equus caballus</i> ADIP	184	-YCYVPGIYFF	SLNVH-TWNQKET-Y-----	LHIMK---	NGEEV-VILY-AQVSD----	225	
<i>Loxodonta africana</i> ADIP	238	-YCYVPGIYFF	SLNVH-TWNQKET-Y-----	LHIMR---	NAAEA-VILY-AQVSD----	279	
<i>Homo sapiens</i> ADIQ	184	AA-PLRGIYFF	SLNVH-SWNYKET-Y-----	VHIMH---	NQKEA-VILY-AQPSE----	225	
<i>Pan troglodytes</i> ADIQ	184	AA-PLRGIYFF	SLNVH-SWNYKET-Y-----	VHIMH---	NQKEA-VILY-AQPSE----	225	
<i>Pongo abelii</i> ADIQ	184	AA-PLRGIYFF	SLNVH-SWNYKET-Y-----	VHIMH---	NQKEA-VILY-AQPSE----	225	
<i>Nomascus leucogenys</i> ADIQ	184	AA-PLRGIYFF	SLNVH-SWNYKET-Y-----	VHIMH---	NQKEA-VILY-AQPSE----	225	
<i>Macaca mulatta</i> ADIQ	184	AA-PLRGIYFF	SLNVH-SWNYKET-Y-----	VHIMH---	NQKEA-VILY-AQPSE----	225	
<i>Mus musculus</i> Adiq	170	VA-PLRGLYFF	SLNVH-SWNYKET-Y-----	VHIVH---	NEQAV-VILY-AQPSE----	211	
<i>Rattus norvegicus</i> Adiq	169	VA-PLRGLYFF	SLNVH-SWNYKET-Y-----	VHIVH---	NEQAV-VILY-AQPSE----	210	
<i>Homo sapiens</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Pan troglodytes</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Pongo abelii</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Nomascus leucogenys</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Macaca mulatta</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Papio hamadryas</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Callithrix jacchus</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Tarsius syrichta</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Otolemur garnettii</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Tupaia belangeri</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Mus musculus</i> Adir	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Rattus norvegicus</i> Adir	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Cavia porcellus</i> ADIR	69	-SCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Oryctolagus cuniculus</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Tursiops truncatus</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Bos taurus</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Equus caballus</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Canis lupus familiaris</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Myotis lucifugus</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Pteropus vampyrus</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Erinaceus europaeus</i> ADIR	43	-ACPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMR---	N-EEVLVSAY-ANDGAP---	86	
<i>Dasyops novemcinctus</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Choloepus hoffmanni</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	
<i>Loxodonta africana</i> ADIR	69	-NCPVNGTYVF	IFHML-KLAVNVPLY-----	VNLMK---	N-EEVLVSAY-ANDGAP---	112	

Homo sapiens ADIA 203 --NTFQVTTGGMVLKLEQGENVFLQA--TD--KNSLL--GMEGANSIFSGFLLFPD-MEA 253
790 800 810 820 830 840
Homo sapiens ADIA 203 --NTFQVTTGGMVLKLEQGENVFLQA--TD--KNSLL--GMEGANSIFSGFLLFPD-MEA 253
Papio hamadryas ADIA 203 --NTFQVTTGGMVLKLEQGENVFLQA--TD--KNSLL--GMEGANSIFSGFLLFPD-VEA 253
Mus musculus Adia 232 --NTFQVTTGGVVLKLEQEEVHVLQA--TD--KNSLL--GIEGANSIFSGFLLFPD-MDA 282
Rattus norvegicus Adia 203 --NTFQVTTGGVVLKLEQEEVHVLQA--TD--KNSLL--GVEGANSIFSGFLLFPD-MDV 253
Cavia porcellus ADIA 201 --NSFQVTTGGVVLKLEREEMVYLEA--TN--QNALL--GIEGANSIFSGFLLFPD-VEL 251
Ochotona princeps ADIA 201 --STFQVTTGGVVLKLEMGESVHLQA--ND--KNSLL--AMEGANSIFSGFLLFPD-ADV 251
Bos taurus ADIA 197 --NTFQVTTGSIVLKLKEDTVFLQA--TE--KNALV--GIEGANSIFSGFLLFPD-TEA 247
Equus caballus ADIA 202 --NTFQVTTGGIVLKLLEETVFLQA--TD--RNSLL--GMEGANSIFSGFLLFPD-REA 252
Canis lupus familiaris ADIA 200 --NTFQVTTGSVVLKLSQGENVFLQA--TD--KNSLL--GMEGANSIFSGFLLFPD-AEA 250
Felis catus ADIA 204 --NTFQVSTGSMVLKLEKQGENVFLQA--TD--KNSLV--GIEGANSIFSGFLLFPD-VEA 254
Myotis lucifugus ADIA 201 --STFQVTTGGIVLKLGLGESVFLQA--TD--RNSLL--GIEGANSIFSGFLLFPN-PEV 251
Dasypus novemcinctus ADIA 198 --SSFQVTTGGVVLKLEGLGENVFLQA--TD--RNSLL--GLDGANSIFSGFLLFPD-AEA 248
Loxodonta africana ADIA 201 --STFQVTTMGVVLKLAQGENVFLQA--TD--KNSLL--GMEGANSIFSGFLLFPD-AEA 251
Homo sapiens ADIB 198 --KTNQVNSGGVLLRLQVGEVVLAV--ND--YYDMV--GIQGSDFSGFLLFPD---- 245
Pan troglodytes ADIB 198 --KTNQVNSGGVLLRLQVGEVVLAV--ND--YYEMV--GIQGSDFSGFLLFPD---- 245
Pongo abelii ADIB 198 --KTNQVNSGGVLLRLQVGEVVLAV--ND--YYDMV--GIQGSDFSGFLLFPD---- 245
Nomascus leucogenys ADIB 199 --KTNQVNSGGVLLRLQVGEVVLAV--ND--YYEMV--GIQGSDFSGFLLFPD---- 246
Callithrix jacchus ADIB 197 --NTKQVNSGGVLLRLQVGEVVLAV--ND--YNGMV--GIEGSDVFSGFLLFPD---- 244
Otolemur garnettii ADIB 196 --NSKQVNSGGVLLRLQVGEVVLAV--ND--YNGMV--GTEGSDVFSGFLLFPD---- 243
Mus musculus Adib 229 --NSKQVNSGGVLLRLQVGEVVLAV--ND--YNGMV--GIEGSDVFSGFLLFPD---- 276
Rattus norvegicus Adib 221 --NSKQVNSGGVLLRLQVGEVVLAV--ND--YNGMV--GTEGSDVFSGFLLFPD---- 268
Cavia porcellus ADIB 248 SQDSKQVTSGGVVLHLQQAQVVLGV--ND--YNGMV--GTQGSDFSGFLLFPD---- 297
Oryctolagus cuniculus ADIB 251 --NTKQVNSGGVLLRLQVGEVVLAV--ND--YNGMV--GTEGSDVFSGFLLFPD---- 298
Bos taurus ADIB 196 --SAKQVNSGGVLLRLQVGEVVLAV--ND--YNGMV--GMEGSDVFSGFLLFPD---- 243
Equus caballus ADIB 216 --NSKQVNSGGVLLRLQVGEVVLAV--ND--YNGMV--GTRGSDVFSGFLLFPD---- 263
Canis lupus familiaris ADIB 198 --NSKQVNSGGVLLRLQVGEVVLAV--ND--YNGMV--GTEGSDVFSGFLLFPD---- 245
Myotis lucifugus ADIB 198 --NSKQVNSGGVLLRLQVGEVVLAV--ND--YNGMV--GTEGSDVFSGFLLFPD---- 245
Loxodonta africana ADIB 196 --NKKQVNSGGVLLRLQVGEVVLAV--ND--YNGMV--GTEGSDVFSGFLLFPD---- 243
Homo sapiens ADIC 195 --KGLFQVNSGGMVLQLQGDQVWVE---KDP--KKGHIYQGSE--ADSVFSGFIIFP--S-A 245
Macaca mulatta ADIC 195 --KGLFQVNSGGMVLQLQGDQVWVE---KDP--RKGNIYQGLE--ADSVFSGFIIFP--S-T 245
Papio hamadryas ADIC 195 --KGLFQVNSGGMVLQLQGDQVWVE---KDP--RKGNIYHGLE--ADSVFSGFIIFP--S-T 245
Callithrix jacchus ADIC 195 --KGLFQVNSGGMVLQLQGDQVWVE---KDP--SKGRIYQGSE--ADSVFSGFIIFP--S-A 245
Mus musculus Adic 195 --KGLFQVLAGGTVLQLRRGDEVWIE---KDP--AKGRIYQTE--ADSVFSGFIIFP--S-A 245
Rattus norvegicus Adic 207 --KGLFQVLAGGTVLQLRRGDEVWIE---KDP--AKGRIYQTE--ADSVFSGFIIFP--S-A 257
Cavia porcellus ADIC 195 --KGLFQVLAGGTVLQLRRGDEVWIE---KDP--SKGNIYQGLE--ADSVFSGFIIFP--S-V 244
Oryctolagus cuniculus ADIC 236 --KGLFQVNSGGTALQLQGDQVWVE---KDP--ARGRIYQTE--ADSVFSGFIIFP--S-A 286
Equus caballus ADIC 228 --RGIFQVNSGGTALQLQGDQVWVE---KDP--RKGRIYQGLE--ADSVFSGFIIFP--S-T 276
Canis lupus familiaris ADIC 214 --KGLFQVNSGGMVLQLQGDQVWVE---KDP--IKGRIYQTE--ADSVFSGFIIFP--S-L 264
Myotis lucifugus ADIC 195 --RGTQVNSGGTALQLQGDQVWVE---KDP--VKGRIYQTE--ADSVFSGFIIFP--S-A 245
Loxodonta africana ADIC 210 --RGLFQVNSGGTALQLQGDQVWVE---KDP--VKGHIYQTE--ADSVFSGFIIFP--S-T 260
Homo sapiens ADID 223 --NNVDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NDNDSTFTGFLLYHD--TN- 275
Pan troglodytes ADID 223 --NNVDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NDNDSTFTGFLLYHD--TN- 275
Pongo abelii ADID 192 --NNVDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NDNDSTFTGFLLYHD--TN- 244
Nomascus leucogenys ADID 222 --NNVDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NDNDSTFTGFLLYHD--TN- 274
Macaca mulatta ADID 221 --NNVDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NDNDSTFTGFLLYHD--TN- 273
Otolemur garnettii ADID 192 --KNVDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NVNDSFTFTGFLLYHD--TN- 244
Mus musculus Adid 206 --KNVDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NVNDSFTFTGFLLYHD--TN- 258
Rattus norvegicus Adid 192 --KNVDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NVNDSFTFTGFLLYHD--TN- 244
Cavia porcellus ADID 234 --KNVDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NVNDSFTFTGFLLYHD--TN- 288
Oryctolagus cuniculus ADID 202 --KNVDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NVNDSFTFTGFLLYHD--TN- 254
Bos taurus ADID 187 --KNVDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NVNDSFTFTGFLLYHD--TN- 240
Equus caballus ADID 249 --KNLDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NVNDSFTFTGFLLYHD--TN- 301
Canis lupus familiaris ADID 201 --KNVDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NVNDSFTFTGFLLYHD--TN- 253
Felis catus ADID 192 --KNVDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NVNDSFTFTGFLLYHD--TN- 244
Myotis lucifugus ADID 201 --QDQVNSGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NINDSTFTGFLLYHD--TN- 253
Dasypus novemcinctus ADID 191 --KNVDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NVNDSFTFTGFLLYHD--TN- 243
Loxodonta africana ADID 192 --KNVDQASGSVLLHLEVGDDQVWLQVYGEGER--RNG--LYAD--NVNDSFTFTGFLLYHD--TN- 245
Homo sapiens ADIE 186 --PKPASLGGAMVRLPEPDQVWVQVGVGD--YIG--IYAS--IKTDSFTSGFIVYSD--WHS 238
Pan troglodytes ADIE 186 --PKPASLGGAMVRLPEPDQVWVQVGVGD--YIG--IYAS--IKTDSFTSGFIVYSD--WHS 238
Pongo abelii ADIE 186 --PKPASLGGAMVRLPEPDQVWVQVGVGD--YIG--IYAS--IKTDSFTSGFIVYSD--WHS 238
Papio hamadryas ADIE 186 --PKPASLGGAMVRLPEPDQVWVQVGVGD--YIG--IYAS--IKTDSFTSGFIVYSD--WHS 238
Callithrix jacchus ADIE 186 --PKPASLGGAMVRLPEPDQVWVQVGVGD--YIG--IYAS--IKTDSFTSGFIVYSD--WHS 238
Otolemur garnettii ADIE 186 --PKPASLGGAMVRLPEPDQVWVQVGVGD--YIG--IYAS--IKTDSFTSGFIVYSD--WHS 238
Mus musculus Adie 186 --PKPASLGGAMVRLPEPDQVWVQVGVGD--YIG--IYAS--IKTDSFTSGFIVYSD--WHS 238
Rattus norvegicus Adie 186 --PKPASLGGAMVRLPEPDQVWVQVGVGD--YIG--IYAS--IKTDSFTSGFIVYSD--WHS 238
Homo sapiens ADIF1 282 --SSEDQASGGIVLQLKLGDEVVLQVTTGGER--FNG--LFAD--EDDDTFTFTGFLIF---SSP 333
Homo sapiens ADIF2 282 --SSEDQASGGIVLQLKLGDEVVLQVTTGGER--FNG--LFAD--EDDDTFTFTGFLIF---SSQ 333
Pan troglodytes ADIF1 282 --SSEDQASGGIVLQLKLGDEVVLQVTTGGER--FNG--LFAD--EDDDTFTFTGFLIF---SSP 333
Pongo abelii ADIF1 282 --SSEDQASGGIVLQLKLGDEVVLQVTTGGER--FNG--LFAD--EDDDTFTFTGFLIF---SSP 333
Nomascus leucogenys ADIF1 282 --SSEDQASGGIVLQLKLGDEVVLQVTTGGER--FNG--LFAD--EDDDTFTFTGFLIF---SSP 333
Macaca mulatta ADIF1 282 --SSEDQASGGIVLQLKLGDEVVLQVTTGGER--FNG--LFAD--EDDDTFTFTGFLIF---GSP 333
Papio hamadryas ADIF1 282 --SSEDQASGGIVLQLKLGDEVVLQVTTGGER--FNG--LFAD--EDDDTFTFTGFLIF---SSP 333

<i>Microcebus murinus</i> ADIF1	282	--SSEDQASGGIVLQKLGDEVVMQVTTGGER-FNG-LFAD-EDDDTTF	FTGFLLF---SS-	332
<i>Otolemur garnettii</i> ADIF1	282	--GSEDQASGGIVLQKLGDEVVMQVTTGGER-FNG-LFAD-EDDDTTF	FTGFLLF---SS-	332
<i>Mus musculus</i> Adif1	311	--SSEDQASGGIVQELKLGDEVVMQVTTGGER-FNG-LFAD-EDDDTTF	FTGFLLF---SSS	362
<i>Rattus norvegicus</i> Adif1	298	--SSEDQASGGIVLELQKLGDEVVMQVTTGGER-FNG-LFAD-EDDDTTF	FTGFLLF---SSS	349
<i>Cavia porcellus</i> ADIF1	282	--SSEDQASGGTVLPLKLGDEVVLQVTTGGER-FNG-LFAD-EDDDTTF	FTGFLLF---SSP	333
<i>Oryctolagus cuniculus</i> ADIF1	282	--SSEDQASGGIVLELQKLGDEVVMQVTTGGER-FNG-LFAD-EDDDTTF	FTGFLLF---SS-	332
<i>Ochotona princeps</i> ADIF1	282	--SSEDQASGGVLELKLADDEVVLQVAGGER-FNG-LFAD-EDDDTTF	FTGFLLF---ST-	332
<i>Bos taurus</i> ADIF1	282	--SSEDQASGGTVLPLKLGDEVVMQVTTGGER-FNG-LFAD-EDDDTTF	FTGFLLF---SSS	333
<i>Equus caballus</i> ADIF1	282	--SSEDQASGGTILQKLGDEVVMQVTTGGER-FNG-LFAD-EDDDTTF	FTGFLLF---SSS	333
<i>Canis lupus familiaris</i> ADIF1	282	--SSEDQASGGIVLPLKLGDEVVMQVTTGGER-FNG-LFAD-EDDDTTF	FTGFLLF---SSQ	333
<i>Felis catus</i> ADIF1	282	--SSEDQASGGIVLPLKLGDEVVMQVAGGER-FNG-LFAD-EDDDTTF	FTGFLLF---S-Q	332
<i>Dasypus novemcinctus</i> ADIF1	283	--SSEDQASGGMVLKLGDEVVLQASGGER-FNG-LFAD-EDDDTTF	FTGFLLF---SS-	333
<i>Loxodonta africana</i> ADIF1	282	--SSEDQASGGTVLELQKLGDEVVMQVTTGGER-FNG-LFAD-EDDDTTF	FTGFLLF---TSS	333
<i>Homo sapiens</i> ADIG	281	---NHDVASGSTVIYLPQPEDEVVLEIFFTD--QNG-LFSDPGWADSLF	SGFLLYVD-TDY	333
<i>Pan troglodytes</i> ADIG	281	---NHDVASGSTVIYLPQPEDEVVLEIFFTD--QNG-LFSDPGWADSLF	SGFLLYVD-TDY	333
<i>Pongo abelii</i> ADIG	281	---NHDVASGSTVIYLPQPEDEVVLEIFFTD--QNG-LFSDPGWADSLF	SGFLLYVD-TDY	333
<i>Callithrix jacchus</i> ADIG	267	---NHDVASGSTVIYLPQPEDEVVLEIFFTD--QNG-LFSDPGWADSLF	SGFLLYVD-TDY	319
<i>Otolemur garnettii</i> ADIG	227	---NHDVASGSTVIYLPQPEDEVVLEIFFTD--QNG-LFSDPGWADSLF	SGFLLYVD-TDY	279
<i>Mus musculus</i> Adig	269	---NHDVASGSTVIYLPQPEDEVVLEIFFND--QNG-LFSDPGWADSLF	SGFLLYVD-TDY	321
<i>Rattus norvegicus</i> Adig	270	---NHDVASGSTVIYLPQPEDEVVLEIFFND--QNG-LFSDPGWADSLF	SGFLLYVD-TDY	322
<i>Cavia porcellus</i> ADIG	227	---NHDVASGSTVIYLPQPEDEVVLEIFFTD--QNG-LFSDPGWADSLF	SGFLLYVD-TDY	279
<i>Oryctolagus cuniculus</i> ADIG	227	---NHDVASGSTVIYLPQPEDEVVLEIFFTD--QNG-LFSDPGWADSLF	SGFLLYVD-TDY	279
<i>Tursiops truncatus</i> ADIG	279	---NHDVASGSTVIYLPQPEDEVVLEIFFTD--QNG-LFSDPGWADSLF	SGFLLYVD-TDY	331
<i>Bos taurus</i> ADIG	227	---NHDVASGSTVIYLPQPEDEVVLEIFFTD--QNG-LFSDPGWADSLF	SGFLLYVD-TDY	279
<i>Equus caballus</i> ADIG	268	---NHDVASGSTVIYLPQPEDEVVLEIFFTD--QNG-LFSDPGWADSLF	SGFLLYVD-TDY	320
<i>Canis lupus familiaris</i> ADIG	268	---NHDVASGSTVIYLPQPEDEVVLEIFFTD--QNG-LFSDPGWADSLF	SGFLLYVD-TDY	320
<i>Myotis lucifugus</i> ADIG	227	---NHDVASGSTVIYLPQPEDEVVLEIFFND--QNG-LFSDPGWADSLF	SGFLLYVD-TDY	279
<i>Homo sapiens</i> ADIH	229	---NHDVASGSTILALKQGDEVVLQIFYSE--QNG-LFYDPYWTDSLF	TGFLIYAD-QD-	280
<i>Pan troglodytes</i> ADIH	229	---NHDVASGSTILALKQGDEVVLQIFYSE--QNG-LFYDPYWTDSLF	TGFLIYAD-QD-	280
<i>Pongo abelii</i> ADIH	229	---NHDVASGSTILALKQGDEVVLQIFYSE--QNG-LFYDPYWTDSLF	TGFLIYAD-QD-	280
<i>Nomascus leucogenys</i> ADIH	229	---NHDVASGSTILALKQGDEVVLQIFYSE--QNG-LFYDPYWTDSLF	TGFLIYAD-QD-	280
<i>Macaca mulatta</i> ADIH	229	---NHDVASGSTILALKQGDEVVLQIFYSE--QNG-LFYDPYWTDSLF	TGFLIYAD-QD-	280
<i>Papio hamadryas</i> ADIH	229	---NHDVASGSTILALKQGDEVVLQIFYSE--QNG-LFYDPYWTDSLF	TGFLIYAD-QD-	280
<i>Mus musculus</i> Adih	236	---NHDVASGSTILALKEGDEVVLQIFYSE--QNG-LFYDPYWTDSLF	TGFLIYAD-QG-	287
<i>Rattus norvegicus</i> Adih	273	---NHDVASGSTILALKEGDEVVLQIFYSE--QNG-LFYDPYWTDSLF	TGFLIYAD-QG-	324
<i>Dipodomys ordii</i> ADIH	229	---NHDIASGSTILALKQDDEVVLQIFYSE--QNG-LFYDPYWTDSLF	TGFLIYAD-QG-	280
<i>Cavia porcellus</i> ADIH	229	---NHDVASGSTILALKQGDEVVLQIFYSE--QNG-LFYDPYWTDSLF	TGFLIYAD-QD-	280
<i>Bos taurus</i> ADIH	246	---NHDVASGSTILALKQGDEVVLQIFYSE--QNG-LFYDPYWTDSLF	TGFLIYAD-QD-	297
<i>Equus caballus</i> ADIH	229	---NHDVASGSTILALKQGDEVVLQIFYSE--QNG-LFYDPYWTDSLF	TGFLIYAD-QD-	280
<i>Canis lupus familiaris</i> ADIH	229	---NHDVASGSTILALKQGDEVVLQIFYSE--QNG-LFYDPYWTDSLF	TGFLIYAD-QD-	280
<i>Pteropus vampyrus</i> ADIH	229	---NHDVASGSTILALKQGDEVVLQIFYSE--QNG-LFYDPYWTDSLF	TGFLIYAD-QD-	280
<i>Loxodonta africana</i> ADIH	229	---NHDVASGSTILALKQGDEVVLQIFYSE--QNG-LFYDPYWTDSLF	TGFLIYAD-QD-	280
<i>Homo sapiens</i> ADII	241	---NYDYASNSVVLHLDGDEVYVKL---D---GGKAHGGNNNKYST	FSGFLLYPD----	287
<i>Pongo abelii</i> ADII	241	---NYDYASNSVVLHLDGDEVYVKL---D---GGKAHGGNNNKYST	FSGFLLYPD----	287
<i>Macaca mulatta</i> ADII	241	---NYDYASNSVVLHLDGDEVYVKL---D---GGKAHGGNNNKYST	FSGFLLYPD----	287
<i>Mus musculus</i> Adii	241	---NYDYASNSVVLHLDGDEVYVKL---D---GGKAHGGNNNKYST	FSGFLLYPD----	287
<i>Rattus norvegicus</i> Adii	241	---NYDYASNSVVLHLDGDEVYVKL---D---GGKAHGGNNNKYST	FSGFLLYPD----	287
<i>Bos taurus</i> ADII	241	---NYDYASNSVVLHLDGDEVYVKL---D---GGKAHGGNNNKYST	FSGFLLYPD----	287
<i>Canis lupus familiaris</i> ADII	241	---NYDYASNSVVLHLDGDEVYVKL---D---GGKAHGGNNNKYST	FSGFLLYPD----	287
<i>Dasypus novemcinctus</i> ADII	241	---NYDYASNSVVLHLDGDEVYVKL---D---GGKAHGGNNNKYST	FSGFLLYPD----	287
<i>Homo sapiens</i> ADIJ	209	---NYDYASNSVVLHLEPGDEVYIKL---D---GGKAHGGNNNKYST	FSGFLIYAD----	255
<i>Pan troglodytes</i> ADIJ	209	---NYDYASNSVVLHLEPGDEVYIKL---D---GGKAHGGNNNKYST	FSGFLIYAD----	255
<i>Papio hamadryas</i> ADIJ	209	---NYDYASNSVVLHLEPGDEVYIKL---D---GGKAHGGNNNKYST	FSGFLIYAD----	255
<i>Mus musculus</i> Adij	209	---NYDYASNSVVLHLEPGDEVYIKL---D---GGKAHGGNNNKYST	FSGFLIYAD----	255
<i>Rattus norvegicus</i> Adij	209	---NYDYASNSVVLHLEPGDEVYIKL---D---GGKAHGGNNNKYST	FSGFLIYAD----	255
<i>Oryctolagus cuniculus</i> ADIJ	209	---NYDYASNSVVLHLEPGDEVYIKL---D---GGKAHGGNNNKYST	FSGFLIYAD----	255
<i>Bos taurus</i> ADIJ	209	---NYDYASNSVVLHLEPGDEVYIKL---D---GGKAHGGNNNKYST	FSGFLIYAD----	255
<i>Canis lupus familiaris</i> ADIJ	209	---NYDYASNSVVLHLEPGDEVYIKL---D---GGKAHGGNNNKYST	FSGFLIYAD----	255
<i>Loxodonta africana</i> ADIJ	209	---NYDYASNSVVLHLEPGDEVYIKL---D---GGKAHGGNNNKYST	FSGFLIYAD----	255
<i>Homo sapiens</i> ADIK	192	---NYDYASNSVILHLDVGDEVFIKL---D---GGKVHGGNTNKYST	FSGFLIYAD----	238
<i>Pan troglodytes</i> ADIK	192	---NYDYASNSVILHLDVGDEVFIKL---D---GGKVHGGNTNKYST	FSGFLIYAD----	238
<i>Gorilla gorilla</i> ADIK	192	---NYDYASNSVILHLDVGDEVFIKL---D---GGKVHGGNTNKYST	FSGFLIYAD----	238
<i>Papio hamadryas</i> ADIK	192	---NYDYASNSVILHLDVGDEVFIKL---D---GGKVHGGNTNKYST	FSGFLIYAD----	238
<i>Callithrix jacchus</i> ADIK	192	---NYDYASNSVILHLDVGDEVFIKL---D---GGKVHGGNTNKYST	FSGFLIYAD----	238
<i>Rattus norvegicus</i> Adik	192	---NYDYASNSVILHLDVGDEVFIKL---D---GGKVHGGNTNKYST	FSGFLIYAD----	238
<i>Cavia porcellus</i> ADIK	192	---NYDYASNSVILHLDVGDEVFIKL---D---GGKVHGGNTNKYST	FSGFLIYAD----	238
<i>Equus caballus</i> ADIK	192	---NYDYASNSVILHLDVGDEVFIKL---D---GGKVHGGNTNKYST	FSGFLIYAD----	238
<i>Canis lupus familiaris</i> ADIK	192	---NYDYASNSVILHLDVGDEVFIKL---D---GGKVHGGNTNKYST	FSGFLIYAD----	238
<i>Dasypus novemcinctus</i> ADIK	192	---NYDYASNSVILHLDVGDEVFIKL---D---GGKVHGGNTNKYST	FSGFLIYAD----	238
<i>Loxodonta africana</i> ADIK	192	---NYDYASNSVILHLDVGDEVFIKL---D---GGKVHGGNTNKYST	FSGFLIYAD----	238
<i>Mus musculus</i> Adil	212	---NYDYASNSVILHLDAGDEVFIKL---D---GGKAHGGNSNKYST	FSGFLIYSD----	258
<i>Rattus norvegicus</i> Adil	212	---NYDYASNSVILHLDAGDEVFIKL---D---GGKAHGGNSNKYST	FSGFLIYSD----	258
<i>Homo sapiens</i> ADIM	309	--KGKSDTSSNHAVLKLAKGDEVVLRM---G---NGALH-GDHQRFST	FAGFLLF-E-TK-	357
<i>Pan troglodytes</i> ADIM	309	--KGKSDTSSNHAVLKLAKGDEVVLRM---G---NGALH-GDHQRFST	FAGFLLF-E-TK-	357

<i>Pongo abelii</i> ADIM	265	-KGKSDTS	SNHAVLKLAKGDEVVLRM---G---NGALH-GDHQRFSTFAGFLLF-E-TK-	313
<i>Nomascus leucogenys</i> ADIM	309	-KGKSDTS	SNHAVLKLAKGDEVVLRM---G---NGALH-GDHQRFSTFAGFLLF-E-TK-	357
<i>Papio hamadryas</i> ADIM	309	-KGKSDTS	SNHAVLKLAKGDEVVLRM---G---NGALH-GDHQRFSTFAGFLLF-E-TK-	357
<i>Callithrix jacchus</i> ADIM	299	-KGKSDTS	SNHAVLKLAKGDEVVLRM---G---NGALH-GDHQRFSTFAGFLLF-E-TK-	347
<i>Mus musculus</i> Adim	198	-KGKSDTS	SNHAVLKLAKGDEVVLRM---G---NGALH-GDHQRFSTFAGFLLF-E-TK-	246
<i>Rattus norvegicus</i> Adim	272	-KGKSDTS	SNHAVLKLAKGDEVVLRM---G---NGALH-GDHQRFSTFAGFLLF-E-TK-	320
<i>Cavia porcellus</i> ADIM	265	-KGKSDTS	SNHAVLKLAKGDEVVLRM---G---NGALH-GDHQRFSTFAGFLLF-E-TK-	313
<i>Bos taurus</i> ADIM	198	-KGKSDTS	SNHAVLKLAKGDEVVLRM---G---NGALH-GDHQRFSTFAGFLLF-E-TK-	246
<i>Equus caballus</i> ADIM	198	-KGKSDTS	SNHAVLKLAKGDEVVLRM---G---NGALH-GDHQRFSTFAGFLLF-E-TK-	246
<i>Canis lupus familiaris</i> ADIM	259	-KGKSDTS	SNHAVLKLAKGDEVVLRM---G---NGALH-GDHQRFSTFAGFLLF-E-TK-	307
<i>Homo sapiens</i> ADIN	265	--RRREMQS	QSVMLALRRGDVWLLSHDHD---GYGAYSN-HGKYITFSGFLVYPDLAPA	318
<i>Pan troglodytes</i> ADIN	265	--RRREMQS	QSVMLALRRGDVWLLSHDHD---GYGAYSN-HGKYITFSGFLVYPDLAPA	318
<i>Pongo abelii</i> ADIN	265	--RRREMQS	QSVMLALRRGDVWLLSHDHD---GYGAYSN-HGKYITFSGFLVYPDLAPA	318
<i>Nomascus leucogenys</i> ADIN	260	--RRREMQS	QSVMLALRRGDVWLLSHDHD---GYGAYSN-HGKYITFSGFLVYPDLAPA	313
<i>Macaca mulatta</i> ADIN	267	--RRREMQS	QSVMLALRRGDVWLLSHDHD---GYGAYSN-HGKYITFSGFLVYPDLAPA	320
<i>Callithrix jacchus</i> ADIN	265	--RRREMQS	QSVMLALRRGDVWLLSHDHD---GYGAYSN-HGKYITFSGFLVYPDLAPA	318
<i>Mus musculus</i> Adin	263	--RRREMQS	QSVMLPLRRGDVWLLSHDHD---GYGAYSN-HGKYITFSGFLVYPDLAAA	316
<i>Cavia porcellus</i> ADIN	275	--RRREMQS	QSVMLSLRRGDVWLLSHDHD---GYGAYSN-HGKYITFSGFLVYPDLTPD	328
<i>Tursiops truncatus</i> ADIN	261	--RRREMQS	QSVMLALRRGDVWLLSHDHD---GYGAYSN-HGKYITFSGFLVYPDLIPA	314
<i>Canis lupus familiaris</i> ADIN	261	--RRREMQS	QSVMLALRRGDVWLLSHDHD---GYGAYSN-HGKYITFSGFLVYPDLAAT	314
<i>Dasylops novemcinctus</i> ADIN	261	--RRREMQS	QSVMLALRRGDVWLLSHDHD---GYGAYSN-HGKYITFSGFLVYPDLAPA	314
<i>Loxodonta africana</i> ADIN	261	--RRREMQS	SIMLALRQDQVWLLSHDHD---GYGAYSN-HGKYITFSGFLVYPDPA-A	313
<i>Homo sapiens</i> ADIO	199	---RSVMAQ	QSLMILLAAGDAVWVRFQRD---RDNAIYGEHGDLYITFSGHIVKP----	249
<i>Pan troglodytes</i> ADIO	199	---RSVMAQ	QSLMILLAAGDAVWVRFQRD---RDNAIYGEHGDLYITFSGHIVKP----	249
<i>Macaca mulatta</i> ADIO	194	---RSVMAQ	QSLMILLAAGDAVWVRFQRE---QDNVYGERGDLYITFSGHIVKP----	244
<i>Bos taurus</i> ADIO	198	---RSVMAQ	QSLMLPLAAGDAVWVRFQRD---RDNAIFGSEGLDYITFSGHIVKP----	248
<i>Myotis lucifugus</i> ADIO	198	---RSVMQ	TOSLMLPLAAGDAVWVRFQRE---QDNVYGERGDLYITFSGHIVKP----	248
<i>Homo sapiens</i> ADIP	326	---RSIMQS	QSLMLELRQDQVWVRLFKGE---RENAIFSEELDTYITFSGYLVKH----	376
<i>Otolemur garnettii</i> ADIP	228	---RSIMQS	QSLMLLQREQDQVWVRLFRGE---RENAIFSDEFDITYITFSGYLVKH----	278
<i>Mus musculus</i> Adip	228	---RSIMQS	QSLMMLREDEQDQVWVRLFKGE---RENAIFSDEFDITYITFSGYLVKP----	278
<i>Cavia porcellus</i> ADIP	228	---RSIMQS	QSLMLELRQDQVWVRLFKGE---RENAIFSDEFDITYITFSGYLVKH----	278
<i>Bos taurus</i> ADIP	251	---RSIMQS	QSLMLELRQDQVWVRLFKGE---RENAIFSDEFDITYITFSGYLVKP----	301
<i>Equus caballus</i> ADIP	226	---RSIMQS	QSLMLELRQDQVWVRLFKGE---RENAIFSDEFDITYITFSGYLVKH----	276
<i>Loxodonta africana</i> ADIP	280	---RSIMQS	QSLMLELRQDQVWVRLFKGE---RENAIFSDEFDITYITFSGYLVKH----	330
<i>Homo sapiens</i> ADIQ	226	---RSIMQS	QSVMLDLAYGDRVWVRLFKRQ---RENAIYSNDFDITYITFSGHILK----	275
<i>Pan troglodytes</i> ADIQ	226	---RSIMQS	QSVMLDLAYGDRVWVRLFKRQ---RENAIYSNDFDITYITFSGHILK----	275
<i>Pongo abelii</i> ADIQ	226	---RSIMQS	QSVMLDLAYGDRVWVRLFKRQ---RENAIYSNDFDITYITFSGHILK----	275
<i>Nomascus leucogenys</i> ADIQ	226	---RSIMQS	QSVMLDLAYGDRVWVRLFKRQ---RENAIYSNDFDITYITFSGHILK----	275
<i>Macaca mulatta</i> ADIQ	226	---RSIMQS	QSVMLDLAYGDRVWVRLFKRQ---RENAIYSNDFDITYITFSGHILK----	275
<i>Mus musculus</i> Adiq	212	---RSIMQS	QSVMLPLVFGDRVWVRLFKRE---RENGIYSDVDITYITFSGHILK----	261
<i>Rattus norvegicus</i> Adiq	211	---RSIMQS	QSVMLPLVFGDYVWVRLFKRE---RENGIYSDMDITYITFSGHILK----	260
<i>Homo sapiens</i> ADIR	113	---DHETAS	NHAILQLFQGDQIWLRLHRGA---IYG--SS-W-KYSTFSGYLLYQD----	158
<i>Pan troglodytes</i> ADIR	113	---DHETAS	NHAILQLFQGDQIWLRLHRGA---IYG--SS-W-KYSTFSGYLLYQD----	158
<i>Pongo abelii</i> ADIR	113	---DHETAS	NHAILQLFQGDQIWLRLHRGA---IYG--SS-W-KYSTFSGYLLYQD----	158
<i>Nomascus leucogenys</i> ADIR	113	---DHETAS	NHAILQLFQGDQIWLRLHRGA---IYG--SS-W-KYSTFSGYLLYQD----	158
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<i>Tupaia belangeri</i> ADIR	113	---DHETAS	NHAILQLFQGDQIWLRLHRGA---IYG--SS-W-KYSTFSGYLLYQD----	158
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<i>Rattus norvegicus</i> Adir	113	---DHETAS	NHAVLQLLQGDQIWLRLHRGA---IYG--SS-W-KYSTFSGYLLYQD----	158
<i>Cavia porcellus</i> ADIR	113	---DHETAS	NHAVLQLFQGDQIWLRLHRGA---IYG--SS-W-KYSTFSGYLLYQD----	158
<i>Oryctolagus cuniculus</i> ADIR	113	---DHETAS	NHAVLQLFQGDQIWLRLHRGA---IYG--SS-W-KYSTFSGYLLYQD----	158
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<i>Loxodonta africana</i> ADIB	-	-----&	-
<i>Homo sapiens</i> ADIC	-	-----&	-
<i>Macaca mulatta</i> ADIC	-	-----&	-
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<i>Cavia porcellus</i> ADIC	-	-----&	-
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<i>Pongo abelii</i> ADID	-	-----&	-
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<i>Canis lupus familiaris</i> ADIF1	-	-----&	-
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<i>Rattus norvegicus</i> Adik	-	-----&	-
<i>Cavia porcellus</i> ADIK	-	-----&	-
<i>Equus caballus</i> ADIK	-	-----&	-
<i>Canis lupus familiaris</i> ADIK	-	-----&	-
<i>Dasyopus novemcinctus</i> ADIK	-	-----&	-
<i>Loxodonta africana</i> ADIK	-	-----&	-
<i>Mus musculus</i> Adil	-	-----&	-
<i>Rattus norvegicus</i> Adil	-	-----&	-
<i>Homo sapiens</i> ADIM	-	-----&	-
<i>Pan troglodytes</i> ADIM	-	-----&	-

<i>Pongo abelii</i> ADIM	-	-----&	-
<i>Nomascus leucogenys</i> ADIM	-	-----&	-
<i>Papio hamadryas</i> ADIM	-	-----&	-
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<i>Rattus norvegicus</i> Adim	-	-----&	-
<i>Cavia porcellus</i> ADIM	-	-----&	-
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<i>Nomascus leucogenys</i> ADIR	-	-----&	-
<i>Macaca mulatta</i> ADIR	-	-----&	-
<i>Papio hamadryas</i> ADIR	-	-----&	-
<i>Callithrix jacchus</i> ADIR	-	-----&	-
<i>Tarsius syrichta</i> ADIR	-	-----&	-
<i>Otolemur garnettii</i> ADIR	-	-----&	-
<i>Tupaia belangeri</i> ADIR	-	-----&	-
<i>Mus musculus</i> Adir	-	-----&	-
<i>Rattus norvegicus</i> Adir	-	-----&	-
<i>Cavia porcellus</i> ADIR	-	-----&	-
<i>Oryctolagus cuniculus</i> ADIR	-	-----&	-
<i>Tursiops truncatus</i> ADIR	-	-----&	-
<i>Bos taurus</i> ADIR	-	-----&	-
<i>Equus caballus</i> ADIR	-	-----&	-
<i>Canis lupus familiaris</i> ADIR	-	-----&	-
<i>Myotis lucifugus</i> ADIR	-	-----&	-
<i>Pteropus vampyrus</i> ADIR	-	-----&	-
<i>Erinaceus europaeus</i> ADIR	-	-----&	-
<i>Dasyops novemcinctus</i> ADIR	-	-----&	-
<i>Choloepus hoffmanni</i> ADIR	-	-----&	-
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