

Homo-sapiens	MAADSDDGAVSAPAAASDGGVSKSTTSGEELVVQVFPVVDVQSNFKEIWPSSLALAKTANF
Psammomys-obesus	MAADSDDGGLSVPTTSDGVVNKNTKSEEEFVIRVFPVVDVQTNFKEIWPSSLALAKTASF
Meriones-unguiculatus	MAADSDVGGLSVPTTSDGVVNKNTKSEEEFVIRVFPVVDVQTNFKEIWPSSLALAKTASF
Acomys-russatus	MAADSDGGVPLVPKTSDDGVNKNST-SAEFFVARVPVVDVQTNFKEIWPSSLALAKTASF
Mastomys-coucha	MAADSADGMPSPVSSSDGGVNKNKTQSAKEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Phodopus-roborovskii	MAADSDDGVPSPVTTSDGGVNKNKTSAEEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Cricetulus-griseus	MAADSDDGVPSPVTTSDGGVNKNKTSAEEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Mesocricetus-auratus	MAADSDDGVPSPVTTSDGGVNKNKTSAEEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Neotoma-lepida	MAADSDDGVPSPVTTSDGGVNKNKTSAEEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Onychomys-torridus	MAADSDDGVPSPVTTSDGGVNKNKTSADEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Peromyscus-californicus-insignis	MAADSDDGVPSPVTTSDGGVNKNKTSADEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Mus-caroli	MAADSDDGVPSPVTTSDGGVNKNKTQSAEEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Mus-pahari	MAADSDDGVPSPVTTSDGGVNKNKTQSAEEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Arvicanthis-tiloticus	MAADSDDGVPSPVTTSDGGVNKNKTQSAEEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Myodes-glareolus	MAADSDDGVPSPVTTSDGGVNKNKTSAEEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Chionomys-nivalis	MAADSDDGVPSPVTTSDGGVNKNKTSAEEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Microtus-ochrogaster	MAADSDDGVPSPVTTSDGGVNKNKTSAEEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Apodemus-sylvaticus	MAADSDDGVPSPVTTSDGGVNKNKTQSAEEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Mus-musculus	MAADSDDGVPSPVTTSDGGVNKNKTQSAEEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Rattus-norvegicus	MAADSDDGVPSPVTTSDGGVNKNKTQSAEEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
Rattus-rattus	MAADSDDGVPSPVTTSDGGVNKNKTQSAEEFVVRVPVVDVQSNDFKEIWPSSLALAKTASF
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Homo-sapiens	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGHSYLAQV
Psammomys-obesus	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLAQV
Meriones-unguiculatus	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLQVQ
Acomys-russatus	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLAQV
Mastomys-coucha	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLAQV
Phodopus-roborovskii	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLTQV
Cricetulus-griseus	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLTQV
Mesocricetus-auratus	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLTQV
Neotoma-lepida	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLTQV
Onychomys-torridus	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLTQV
Peromyscus-californicus-insignis	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLTQV
Mus-caroli	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLAQV
Mus-pahari	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLAQV
Arvicanthis-tiloticus	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLTQV
Myodes-glareolus	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLTQV
Chionomys-nivalis	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLTQV
Microtus-ochrogaster	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLTQV
Apodemus-sylvaticus	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLAQV
Mus-musculus	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGENSYLAQV
Rattus-norvegicus	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGDSYLAQV
Rattus-rattus	VAVDTLSGLGDRKSLLNQCIERYKAVCHAARTRSVLSGLACFRQOPDKGDSYLAQV
	*****;*****;*****;*****;*****;*. *; *.**.*
Homo-sapiens	FNLTLLCMEEYVIEPKSVQFLIQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Psammomys-obesus	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Meriones-unguiculatus	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Acomys-russatus	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Mastomys-coucha	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Phodopus-roborovskii	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Cricetulus-griseus	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Mesocricetus-auratus	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Neotoma-lepida	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Onychomys-torridus	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Peromyscus-californicus-insignis	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Mus-caroli	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRMLFLLEL
Mus-pahari	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Arvicanthis-tiloticus	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Myodes-glareolus	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Chionomys-nivalis	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Microtus-ochrogaster	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Apodemus-sylvaticus	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Mus-musculus	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Rattus-norvegicus	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
Rattus-rattus	FNLTLLCMEEYVIEPKSVQFLVQHGFNFMNQYAAQGIPIYHKGNKDGDESQSQSVRTLFLLEL
	*****;*****;*****;*****;*****;*. *; *.**.*
Homo-sapiens	IRARRPLVLHNGLIDLVLQNFYAHLPESLGTFTADLCMPFAGIYDTKYAAEFHARFV
Psammomys-obesus	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Meriones-unguiculatus	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Acomys-russatus	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Mastomys-coucha	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Phodopus-roborovskii	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Cricetulus-griseus	IRARRPLVLHNGLIDLVLQNFYAHLPETLGTFTADLCMPFAGIYDTKYAAEFHARFV
Mesocricetus-auratus	IRARRPLVLHNGLIDLVLQNFYAHLPETLGTFTADLCMPFAGIYDTKYAAEFHARFV
Neotoma-lepida	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARF-
Onychomys-torridus	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Peromyscus-californicus-insignis	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Mus-caroli	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Mus-pahari	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Arvicanthis-tiloticus	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Myodes-glareolus	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Chionomys-nivalis	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Microtus-ochrogaster	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Apodemus-sylvaticus	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Mus-musculus	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Rattus-norvegicus	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
Rattus-rattus	IRARRPLVLHNGLIDLVLQNFYAHLPENLGTFTADLCMPFAGIYDTKYAAEFHARFV
	*****;*****;*****;*****;*****;*. *; *.**.*
Homo-sapiens	ASYLEYAFRKKCERENGKQRAAGSPHLTLEFCYSPSSMRGHDYRCCLPAT-HRPHTTSI
Psammomys-obesus	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Meriones-unguiculatus	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Acomys-russatus	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Mastomys-coucha	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Phodopus-roborovskii	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Cricetulus-griseus	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Mesocricetus-auratus	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Neotoma-lepida	-----FCSYSPSSMRHDYRCCMSPVTYHRSHTTGI
Onychomys-torridus	ASYLEYAFRKKCERENGKQRAAGSPHLTLEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Peromyscus-californicus-insignis	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Mus-caroli	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Mus-pahari	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Arvicanthis-tiloticus	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Myodes-glareolus	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Chionomys-nivalis	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Microtus-ochrogaster	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Apodemus-sylvaticus	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Mus-musculus	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Rattus-norvegicus	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Rattus-rattus	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
	ASYLEYAFRKKCERENGKQRAAGSPHLALEFCYSPSSMRGHDYRCCMSPVTYHRSHTTGI
Homo-sapiens	CDNFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGTQT
Psammomys-obesus	CDKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGMQT
Meriones-unguiculatus	CDKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGMQT
Acomys-russatus	CDKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGTQT
Mastomys-coucha	CDKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGTQT
Phodopus-roborovskii	CDKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGTQT
Cricetulus-griseus	CDKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGTQT
Mesocricetus-auratus	CDKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGTQT
Neotoma-lepida	CNKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGTQT
Onychomys-torridus	CDKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGAQT
Peromyscus-californicus-insignis	CDKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGAQT
Mus-caroli	CDKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGTQT
Mus-pahari	CDKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGTQT
Arvicanthis-tiloticus	CDKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGTQT
Myodes-glareolus	CTKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGTQT
Chionomys-nivalis	CTKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGTGT
Microtus-ochrogaster	CTRFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGTGT
Apodemus-sylvaticus	CDKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGTGT
Mus-musculus	-----
Rattus-norvegicus	-----
Rattus-rattus	CDKFSAYGWCPGLGPCQPSHIDLIDTDEAAVEDKRRRR--RRKDKRRALLSQPGTQT
	-----
Homo-sapiens	SGEAKDGPPTKKQVCDSIKPE-----ETEQKVAEG
Psammomys-obesus	FEEAEDGPPTKKQVCEDSLKTE-----NTEQKVAEG
Meriones-unguiculatus	FEEAEDGPPTKKQVCEDSLKTE-----NPEQKVAEG
Acomys-russatus	FEEAEDGPPTKKQVREDNLNTE-----NTEQKVAEG
Mastomys-coucha	LEEAEADGPPTKKQVCEDSLKAE-----KMEQKVAEG
Phodopus-roborovskii	FEEAEDGPPTKKQVCEDNLKTQ-----ELEQRVTER
Cricetulus-griseus	FEEAEDGPPTKKQVCEDSLKTE-----EMEQRVTEG
Mesocricetus-auratus	FEEAEDGPPTKKQVCEDNLKTE-----EIQQRVTEG
Neotoma-lepida	FEEAEDGPPTKKQVCEDSLKTE-----EIEQKVTEG
Onychomys-torridus	FEEAEDGPPTKKQVCEDSLKTE-----ETEQRVTEG
Peromyscus-californicus-insignis	FEEAEDGPPTKKQVCEDSLKTE-----EIEQKVTEG
Mus-caroli	LAEAEADGPPTKKQVCEDSLKTE-----KMEQKVAEG
Mus-pahari	LAEAEADGPPTKKQVCEDSLKTE-----KMEQKVAEG
Arvicanthis-tiloticus	LEEAEADGPPTKKQVCEDSLQTE-----KIEQKVAEG
Myodes-glareolus	FEEAEDGPPTKKQVCEDSLKTE-----IEQKVTEG
Chionomys-nivalis	FEEAEDGPPTKKQVCEDSLKTE-----IEQKVTEG
Microtus-ochrogaster	FEEAEDGPPTKKQVCEDSLKTE-----IEQKVTEG
Apodemus-sylvaticus	LEEAEADGPPTKKQVCEDNLKTE-----KVEQKVAEG
Mus-musculus	-----
Rattus-norvegicus	-----
Rattus-rattus	LEEAEADGPPTKKQVCEDSLKTE-----KIEQKVAEG
	-----
Homo-sapiens	ETRNLPHSKQGNKNDLEMGIKAAARPEIADRAETSEVPQSASPNPVPDGLHRAGFADFMT
Psammomys-obesus	ETRDQVGSQKQHGKGLMEHEAVSSEIADVATSELVFNQTSNPNPVPDGLHRAGFADFMT
Meriones-unguiculatus	ETRDQVGSQKQHGKGLMEHEAVSSEIADVATSELVFNQTSNPNPVPDGLHRAGFADFMT
Acomys-russatus	ETSDQLGSKQGHGKGLMEKHEATGSETADVATSELVFNQTSNPNPVPDGLHRAGFADFMT
Mastomys-coucha	DAGDQLGSRQGHGTSLEIAHRTSAETADVAPSELVFNQTSNPNPVPDGLHRAGFADFMT
Phodopus-roborovskii	ETRELDQSKQGHKSLMEHKATGSETADVASELVPVQASPNPMPDGLHRAGFADFMT
Cricetulus-griseus	ETRELDQSKQAHKSGLEMEHKATSETVDVATSELVPVQASPNPVPDGLHRAGFADFMT
Mesocricetus-auratus	EIRDELGSKQAHKSGSEMEHKATSETVDVATSELVPVQASPNPVPDGLHRAGFADFMT
Neotoma-lepida	ETRDQLGSKQGHKSLLEIYKATSSKIAADVATSELVPVQASPNPMPDGLHRAGFADFMT
Onychomys-torridus	ETRDQLGSKQGHKSLLEIYKATSSKIAADVATSELVPVQASPNPVPDGLHRAGFADFMT
Peromyscus-californicus-insignis	ETRDQLGSKQGHKSLLEIYKATSSKIAADVATSELVPVQASPNPMPDGLHRAGFADFMT
Mus-caroli	EAGDQPGSRQGHGTSLEMEHRTSAETADVATSELVFNQTSNPNPVPDGLHRAGFADFMT
Mus-pahari	EAGDQPGSRQGHGTSLEMEHRTSAETADVATSELVFNQTSNPNPVPDGLHRAGFADFMT
Arvicanthis-tiloticus	EAKDQLGSKQGHGTSLEMAHRTSETADMATSDLLVNOGSTNPNPVPDGLHRAGFADFMT
Myodes-glareolus	ETRDQLGSKQGHKSLLEIYKATSSKIAADVASELVPVQASPNPVPDGLHRAGFADFMT
Chionomys-nivalis	ESRDQLGSKQGHKSLLEIYKATSSKIAADVASELVPVQASPNPVPDGLHRAGFADFMT
Microtus-ochrogaster	ESRDQLGSKQGHKSLLEIYKATSSKIAADVASELVPVQASPNPVPDGLHRAGFADFMT
Apodemus-sylvaticus	EAGDELGSQGHGTSPEMAHR-TSADTADVATSELVFNQTSNPNPVPDGLHRAGFADFMT
Mus-musculus	-STGRMGSKRG-----
Rattus-norvegicus	-----
Rattus-rattus	---DQLGSPQGHKDSLEMAKRT---ADVPTSSELLVFNQTSNPNPVPDGLHRAGFADFMT
	-----
Homo-sapiens	GYVMAYVEVSGQPQPCSSGPWLPECHNKVYLSGKAVPLTVAKSQFSRSHKAHNQKMKLW
Psammomys-obesus	GYVMAYVGLSQGTQLCSSEFWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Meriones-unguiculatus	GYVMAYVGLSQGTQLCSSEFWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Acomys-russatus	GYVMAYVGLSQGTQLCSSEFWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Mastomys-coucha	GYVMAYVGLSQGTQLCSSEFWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Phodopus-roborovskii	GYVMAYVGLSQGTQLCSSEFWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Cricetulus-griseus	GYVMAYVGLSQGTQLCSSEFWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Mesocricetus-auratus	GYVMAYVGLSQGTQLCSSEFWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Neotoma-lepida	GYVMAYVGLSQGTQLCSSEFWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Onychomys-torridus	GYVMAYVGLSQGTQLCSSEFWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Peromyscus-californicus-insignis	GYVMAYVGLSQGTQLCSSEFWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Mus-caroli	GYVMAYVGLSQGTQLCSSEFWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Mus-pahari	GYVMAYVGLSQGTQLCSSEFWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Arvicanthis-tiloticus	GYVMAYVGLSQGTQLCSSEFWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Myodes-glareolus	GYVMAYVGLRHGPQLCSSGPWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Chionomys-nivalis	GYVMAYVGLRHGPQLCSSGPWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Microtus-ochrogaster	GYVMAYVGLRHGPQLCSSGPWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Apodemus-sylvaticus	GYVMAYVGLSQGTQLCSSEFWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
Mus-musculus	-----SLATHI-----
Rattus-norvegicus	-----PMA-----
Rattus-rattus	GYVMAYVGLSKGTQLCSSEFWLPECHNKVYLSGKTVPLTVAKSQFSRSHKAHNQKMKLW
	..:
Homo-sapiens	GSS
Psammomys-obesus	GSS
Meriones-unguiculatus	GSS
Acomys-russatus	GNS
Mastomys-coucha	GSS
Phodopus-roborovskii	SSS
Cricetulus-griseus	GSS
Mesocricetus-auratus	GSS
Neotoma-lepida	GSS
Onychomys-torridus	GSS
Peromyscus-californicus-insignis	GSS
Mus-caroli	GSS
Mus-pahari	GSS
Arvicanthis-tiloticus	GSS
Myodes-glareolus	GSS
Chionomys-nivalis	GSS
Microtus-ochrogaster	GSS
Apodemus-sylvaticus	GSS
Mus-musculus	-
Rattus-norvegicus	GAL
Rattus-rattus	GSS