Homo\_sapiens MACLGFQRHKAQLNLATRTWPCTLLFFLLFIPVFCKAMHVAQPAVVLASSRGIASFVCEY

Pan\_troglodytes MACLGFQRHKAQLNLATRTWPCTLLFFLLFIPVFCKAMHVAQPAVVLASSRGIASFVCEY

Macaca\_mulatta MACLGFQRHKARLNLATRTRPYTLLFSLLFIPVFSKAMHVAQPAVVLANSRGIASFVCEY

lupus\_familiaris MAGFGFRRHGAQPDLASRTWPCTALFSLLFIPVFSKGMHVAQPAVVLASSRGVASFVCEY

Bos\_taurus MACSGFQSHGTW--WTSRTWPCTALFFLVFIPVFSKGMNVTQPPVVLASSRGVASFSCEY

Mus\_musculus MACLGLRRYKAQLQLPSRTWPFVALLTLLFIPVFSEAIQVTQPSVVLASSHGVASFPCEY

Rattus\_norvegicus MACLGLQRYKTHLQLPSRTWPFGVLLSLLFIPIFSEAIQVTQPSVVLASSHGVASFPCEY

Gallus\_gallus ---------------MLSAWVTV--SFLCAATATAEVMEVTQPAIVLANRQGVASLVCNY

Oncorhynchus ------------MTLSLLTFLCLGL----CLPV-WNALRVTQPYRVV-SHRGEVELFCSY

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Homo\_sapiens ASPGKA--TEVRVTVLRQAD--SQVTEVCAATYMMGNELTFL-----DDSICTGTSSGNQ

Pan\_troglodytes ASPGKA--TEVRVTVLRQAD--SQVTEVCAATYMMGNELTFL-----DDSICTGTSSGNQ

Macaca\_mulatta ASPGKA--TEVRVTVLRQAD--SQVTEVCAATYMMGNELTFL-----DDSICTGTSSGNQ

lupus\_familiaris GSSGNA--AEVRVTVLRQAG--SQMTEVCAATYTVEDELAFL-----DDSTCTGTSSGNK

Bos\_taurus ESSGKA--DEVRVTVLREAG--SQVTEVCAGTYMVEDELTFL-----DDSTCIGTSRGNK

Mus\_musculus SPSHNT--DEVRVTVLRQTN--DQMTEVCATTFTEKNTVGFL-----DYPFCSGTFNESR

Rattus\_norvegicus ASSHNT--DEVRVTVLRQTN--DQVTEVCATTFTVKNTLGFL-----DDPFCSGTFNESR

Gallus\_gallus KHIGNA--KEIRVTLLKQTG--DKFTEICASTYTTEFKMFSVE----EVIQCHVSPSRNN

Oncorhynchus HHTGRNEPEELRITLYRGMYGEQEEQKVCTSSFTHNNTAFQVEGEGERKVRCRGQLRPGK

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Homo\_sapiens VNLTIQGLRAMDTGLYICKVELMYPPPYYLGIGNGTQIYVIDPEPCPDSDFLLW--ILAA

Pan\_troglodytes VNLTIQGLRAMDTGLYICKVELMYPPPYYLGIGNGTQIYVIDPEPCPDSDFLLW--ILAA

Macaca\_mulatta VNLTIQGLRAMDTGLYICKVELMYPPPYYMGIGNGTQIYVIDPEPCPDSDFLLW--ILAA

lupus\_familiaris VNLTIQGLRAMDTGLYICKVELMYPPPYYVGMGNGTQIYVIDPEPCPDSDFLLW--ILAA

Bos\_taurus VNLTIQGLRAMDTGLYVCKVELMYPPPYYVGIGNGTQIYVIDPEPCPDSDFLLW--ILAA

Mus\_musculus VNLTIQGLRAVDTGLYLCKVELMYPPPYFVGMGNGTQIYVIDPEPCPDSDFLLW--ILVA

Rattus\_norvegicus VNLTIQGLRAADTGLYFCKVELMYPPPYFVGMGNGTQIYVIDPEPCPDSDFLLW--ILAA

Gallus\_gallus VTLTLTGLQANDTGLYVCKMERMYPPPYFMNKGNGTQLYVIDPEPCPDTATYLW--VLGA

Oncorhynchus VNLTISGLRGNDTDLYRCAIEVLYPPPYLRTFGNGTLLYITEEPGCFTPEAQRRDDVTGE

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Homo\_sapiens VS-----SGLFFYSFLLTAV---SLSKMLKKRSPLTTGVYVKMPPTEPEC-EKQFQPYFI

Pan\_troglodytes VS-----SGLFFYSFLLTAV---SLSKMLKKRSPLTTGVYVKMPPTEPEC-EKQFQPYFI

Macaca\_mulatta VS-----SGLFFYSFLLTAV---SLSKMLKKRSPLTTGVYVKMPPTEPEC-EKQFQPYFI

lupus\_familiaris VS-----SGLFFYSFLITAV---SLSKMLKKRSPLTTGVYVKMPPTEPEC-EKQFQPYFI

Bos\_taurus VS-----SGLFFYSFLITAV---SLSKMLKKRSPLTTGVYVKMPPTEPEC-EKQFQPYFI

Mus\_musculus VS-----LGLFFYSFLVTAV---SLSKMLKKRSPLTTGVYVKMPPTEPEC-EKQFQPYFI

Rattus\_norvegicus VS-----SGLFFYSFLVTAV---SLNRTLKKRSPLTTGVYVKMPPTEPEC-EKQFQPYFI

Gallus\_gallus TA-----SGFFLYSIIISAI---VVGKAIQRRQRLTTGVYVKMPSEK--L-EKKVIPFHI

Oncorhynchus TSVRLPLAGLAAVLIVISAIAILLVHQVLQRKRRFEAIV-PMMSKNDGRFDYGNFQ----

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Homo\_sapiens PIN

Pan\_troglodytes PIN

Macaca\_mulatta PIN

lupus\_familiaris PIN

Bos\_taurus PIN

Mus\_musculus PIN

Rattus\_norvegicus PIN

Gallus\_gallus TVN

Oncorhynchus ---