CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

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	**:.*	
Mus musculus	MAANKGK	7
Rattus_norvegicus	MAA <mark>NKGK</mark>	7
Homo_sapiens	<mark>Maa</mark> nksk	7
Pan_troglodytes	MKQRQSALQWVICVSQPQKTSEMAANKSK	29
Macaca_mulatta	<mark>MAANK</mark> SK	7
Callithrix_jacchus	<mark>MAANK</mark> SK	7
Bos_taurus	<mark>MAANK</mark> SK	7
Canis_lupus_familiaris		7
Equus_caballus	mat <mark>nk</mark> sk	7
Gallus_gallus	MLAVKYSGFQTPAENEAMLCRLLYGRRPYLTWRTYNPNRSDWLSGTSSVANRTMAASKGK	60
Chelonia_mydas	MAASKNK	7
Pavo_muticus	MLAVKYSGFQTPARNKATICRLLGRRPLTWRSYSLNRSDWLSGTSSVANRTMAASKGK	58
Pavo_cristatus	MLAVKYSGFQTPARNKATICRLLGRRPLTWRSYSLNRSDWLSGTSSVANSTMAASKGK	58
Xenopus_tropicalis	Maa <mark>nk</mark> nk	7
Rhinatrema_bivittatum	1102030405060	7
	1102030405060	
	*.***********************************	
Mus musculus	SOGSLVLHKVIMVGSGGVGKSALTLOFMYDEFVEDYEPTKADSYRKKVVLDGEEVOIDIL	67
Rattus norvegicus	SQGSLVLHKVIMVGSGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVVLDGEEVQIDIL	67
Homo sapiens	GQSSLALHKVIMVGSGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVVLDGEEVQIDIL	67
Pan troglodytes	GOSSLALHKVIMVGSGGVGKSALTLOFMYDEFVEDYEPTKADSYRKKVVLDGEEVQIDIL	89
Macaca mulatta	GQSSLALHKVIMVGSGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVVLDGEEVQIDIL	67
Callithrix_jacchus	GQSSLALHKVIMVGSGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVVLDGEEVQIDIL	67
Bos taurus	SQSSLALHKVIMVGSGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVVLDGEEVQIDIL	67
	SQSSLALHKVIMVGSGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVVLDGEEVQIDIL	67
Equus caballus	SQSSLALHKVIMVGSGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVVLDGEEVQIDIL	67
Gallus_gallus	NQSSLALHKVIMVGSGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVVLDGEEVQIDIL	120
Chelonia_mydas	NQSSMALHKVIMVGSGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVVLDGDEFQIDIL	67
Pavo muticus	NQSSLALHKVIMVGSGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVVLDGEEVQIDIL	118
Pavo_cristatus	NQSSLALHKVIMVGSGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVVLDGEEVQIDIL	118
Xenopus tropicalis	NQSSLVLHKVIMVGSGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVVLDGEEVQIDIL	67
Rhinatrema_bivittatum	TQSSLVLHKVIMVGSGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVVLDGEEVQIDIL	67
	708090100110120	• .

Mus_musculus	DTAGQEDYAAIRDNYFRSGEGFLLVFSITEHESFTATAEFREQILRVKSEEDKIPLLVVG	127
Rattus_norvegicus	DTAGQEDYAAIRDNYFRSGEGFLLVFSITEHESFTATAEFREQILRVKAEEDKIPLLVVG	127
Homo_sapiens	DTAGQEDYAAIRDNYFRSGEGFLLVFSITEHESFTATAEFREQILRVKAEEDKIPLLVVG	127
Pan_troglodytes	DTAGQEDYAAIRDNYFRSGEGFLLVFSITEHESFTATAEFREQILRVKAEEDKIPLLVVG	149
Macaca_mulatta	DTAGQEDYAAIRDNYFRSGEGFLLVFSITEHESFTATAEFREQILRVKAEEDKIPLLVVG	127
Callithrix_jacchus	DTAGQEDYAAIRDNYFRSGEGFLLVFSITEHESFTATAEFREQILRVKAEEDKIPLLVVG	127
Bos_taurus	DTAGQEDYAAIRDNYFRSGEGFLLVFSITEHESFTATAEFREQILRVKAEEDKIPLLVVG	127
Canis_lupus_familiaris		127
Equus_caballus	DTAGQEDYAAIRDNYFRSGEGFLLVFSITEHESFTATAEFREQILRVKAEEDKIPLLVVG	127
Gallus_gallus	DTAGQEDYAAIRDNYFRSGEGFLLVFSITEHESFTATAEFREQILRVKAEEDKIPLLVVG	180
Chelonia_mydas	DTAGQEDYAAIRDNYFRSGEGFLLVFSITEYESFTATAELREQILRVKAEEDKIPLLVVG	127
Pavo_muticus	DTAGQEDYAAIRDNYFRSGEGFLLVFSITEHESFTATAEFREQILRVKAEEDKIPLLVVG	178
Pavo_cristatus	DTAGQEDYAAIRDNYFRSGEGFLLVFSITEHESFTATAEFREQILRVKAEEDKIPLLVVG	178
Xenopus_tropicalis	DTAGQEDYAAIRDNYFRSGEGFLLVFSITEHESFTATAEFREQILRVKAEEDKIPLLLVG	127
Rhinatrema_bivittatum	DTAGQEDYAAIRDNYFRSGEGFLLVFSITEHESFTATAEFREQILRVKAEEDKIPLLVVG	127
	130140150160170180	

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Mus_musculus	NKSDLEERRQVPVDEARGKAEEWGVQYVETSAKTRANVDKVFFDLMREIRAKKMSENKDK	187
Rattus_norvegicus	NKSDLEERRQVPVEEARGKAEEWGVQYVETSAKTRANVDKVFFDLMREIRAKKMSENKDK	187
Homo_sapiens	NKSDLEERRQVPVEEARSKAEEWGVQYVETSAKTRANVDKVFFDLMREIRTKKMSENKDK	187
Pan_troglodytes	NKSDLEERRQVPVEEARSKAEEWGVQYVETSAKTRANVDKVFFDLMREIRTKKMSENKDK	209
Macaca_mulatta	NKSDLEERRQVPVEEARSKAEEWGVQYVETSAKTRANVDKVFFDLMREIRTKKMSENKDK	187
Callithrix_jacchus	NKSDLEERRQVPVEEARSKAEEWGVQYVETSAKTRANVDKVFFDLMREIRAKKMSENKDK	187
Bos_taurus	NKSDLEERRQVLVEEARAKAEEWGVQYVETSAKTRANVDKVFFDLMREIRTKKMSENKDK	187
Canis_lupus_familiaris	NKSDLEERRQVPIEEARTKAEEWGVQYVETSAKTRANVDKVFFDLMREIRAKKMSENKDK	187
Equus_caballus	NKSDLEERRQVPIEEARSKAEEWGVQYVETSAKTRANVDKVFFDLMREIRAKKMSENKDK	187
Gallus_gallus	NKSDLEERRQVPVEEARSKAEEWGVQYVETSAKTRANVDKVFFDLMREIRAKKMSENKDK	240
Chelonia_mydas	NKSDLEERRQVPVEEARSKAEEWGVQYVETSAKTRANVDKVFFDLMREIRAKKMSENKDK	187
Pavo_muticus	NKSDLEERRQVPVEEARSKAEEWGVQYVETSAKTRANVDKVFFDLMREIRAKKMSENKDK	238
Pavo_cristatus	NKSDLEERRQVPVEEARSKAEEWGVQYVETSAKTRANVDKVFFDLMREIRAKKMSENKDK	238
Xenopus_tropicalis	NKSDLEERRQVPMDEARGKAEEWGVQYVETSAKTRANVDKVFFDLMREVRSKKMSENKDK	187
Rhinatrema_bivittatum	NKSDLEERRQVPVEEARSKAEEWGVQYVETSAKTRANVDKVFFDLMREVRAKKMSENKEK	187
	$\dots 190 \dots 200 \dots 210 \dots 220 \dots 230 \dots 240$	

Mus_musculus	NGRK <mark>SS</mark> KSKK <mark>S</mark> FKERCCLL	206
Rattus_norvegicus	NGRKSGKSKKSFKERCCLL	206
Homo_sapiens	NGKKSSKNKKSFKERCCLL	206
Pan_troglodytes	NGKKSSKNKKSFKERCCLL	228
Macaca_mulatta	NGKKSGKNKKSFKERCCLL	206
Callithrix_jacchus	NGKKSSKNKKSFKERCCLL	206
Bos_taurus	NGKKSSKNKKSFKERCCLL	206
Canis_lupus_familiaris	NGKKSSKNKKSFKERCCLL	206
Equus_caballus	NGKKSSKNKKSFKERCCLL	206
Gallus_gallus	NGKKSGKNKKSFKERCCLL	259
Chelonia_mydas	NGKK <mark>S</mark> GKSKK <mark>S</mark> FKERCCLL	206
Pavo_muticus	NGKK <mark>S</mark> GKNKK <mark>S</mark> FKERCCLL	257
Pavo_cristatus	NGKKSGKNKKSFKERCCLL	257
Xenopus_tropicalis	NGKK <mark>S</mark> GKSKKGFKQRCCLL	206
Rhinatrema_bivittatum	NGKK <mark>SS</mark> KSKK <mark>S</mark> FKQRCCLL	206
	250	