

CLUSTAL O(1.2.1) multiple sequence alignment

gi 530584065:87-1661	-----	0
gi 557265256:74-1648	-----	0
gi 755745075:318-1892	-----	0
gi 555290051:121-1695	-----	0
gi 300798097:82-1656	-----	0
gi 240849335:141-1715	-----	0
gi 803180317:2708-4297	-----	0
gi 134085945:20-1594	-----	0
gi 688603875:111-1688	-----	0
gi 657585651:111-1688	-----	0
gi 657585641:75-1811	-----MPNKTKKDKESVK-----SGKVAKSGAQ	23
gi 50726891:63-1868	-----MPNKTKEKEPTKSAKSSTKNSNA--SAGKDVGT	32
gi 426251100:1-1800	-----MAEDNAHQTPKFKEPPKLAKGTAKPSSSS---KDGGG	34
gi 14669809:89-1873	-----MSYKLKKDKEPSKLAKGTAKPSSSS---KDGGG	30
gi 672023745:791-2578	-----MPYKLKKDKKEPPKLAKGTAKPSSSS---KDGGG	30
gb L76702.1 HUMB56DA:188-1996	-----MPYKLKKEKEPPKVAKCTAKPSSSG---KDGGG	30
gi 329744635:107-1909	-----MPYKLKKEKEPPKLAKGTAKPSSSS---KDGGG	30
gi 755728309:140-1948	-----MPYKLKKEKETPKLAKGTTKPSSSG---KDGGG	30
gi 641758569:96-1892	-----MPYKLKKEKEPPKSAKSTTKPSSGSSGGGKDGGA	34
gi 557295947:96-1958	MAKAGKSTTWLKWIIILLNSLRGLLLHDGSINKAIQEPKSAKSTTKSSGG--SSGKDGGA	58
gi 688564053:1400-2911	-----	0
gi 657563479:1-1563	-----	0
gi 115497699:359-1849	-----	0
gi 803191297:577-2067	-----	0
gi 60593006:48-1541	-----	0
gi 142364854:598-2091	-----	0
gb L42374.1 HUMPP2ABA:326-1819	-----	0
gi 587003404:628-2121	-----	0
gi 641793336:1879-3372	-----	0
gi 557320144:379-1860	-----	0
gi 51491868:454-1860	-----	0
gi 657554348:108-1517	-----	0
gi 641761822:526-1914	-----	0
gi 557266651:182-1570	-----	0
gi 586990135:195-1598	-----	0
gi 532164714:591-1994	-----	0
gi 134085748:529-1932	-----	0
gi 426233507:51-1454	-----	0
gi 55741699:574-1977	-----	0
gi 672056393:586-1989	-----	0
gi 528511094:406-1860	-----	0
gi 657570088:928-2469	-----	0

gi 557292702:1-1446	-----	0
gi 641796061:534-1967	-----	0
gi 118130061:626-2086	-----	0
gi 157823929:178-1638	-----	0
gi 126165211:499-1968	-----	0
gi 426240097:195-1664	-----	0
gb L42373.1 HUMPP2A:572-2032	-----	0
gi 755806859:84-1547	-----	0
gi 530584065:87-1661	-----MLTCNKAG--	8
gi 557265256:74-1648	-----MLTCNKAG--	8
gi 755745075:318-1892	-----MWTCKNAG--	8
gi 555290051:121-1695	-----MLTCNKAG--	8
gi 300798097:82-1656	-----MLTCNKAG--	8
gi 240849335:141-1715	-----MLTCNKAG--	8
gi 803180317:2708-4297	-----MLTCNKAG--	8
gi 134085945:20-1594	-----MLTCNKAG--	8
gi 688603875:111-1688	-----MLTCS-----	5
gi 657585651:111-1688	-----MLACTRPAS--	9
gi 657585641:75-1811	ENS-----EHEQSSNRKASNSAPPT-----TQLLKKGKQPGSQ	55
gi 50726891:63-1868	ENSEEAQ-----QTASKRPSNSTPPP-----TQLNKKIKYSGGP	65
gi 426251100:1-1800	ESTEEPQPPQP-----QPPSSNKRPSNSTPPP-----TQLSKIKYSGGP	74
gi 14669809:89-1873	ENTDEAQQP-----QSQSPSSNKRPSNSTPPP-----TQLSKIKYSGGP	70
gi 672023745:791-2578	ENTDTEA-----QPQPQPQPPSSNKRPSNSTPPP-----TQLSKIKYSGGP	71
gb L76702.1 HUMB56DA:188-1996	ENTEEAQQPQPQPQAQSQPPSSNKRPSNSTPPP-----TQLSKIKYSGGP	78
gi 329744635:107-1909	ESTEEAQQPQPQP-----QPQPQPQPPSSNKRPSNSTPPP-----TQLSKIKYSGGP	76
gi 755728309:140-1948	ESAEAAQQPQPQPQPQPQPPSSNKRPSNSTPPP-----TQLSKIKYSGGP	78
gi 641758569:96-1892	ENSEEVQQ-----QQQPPPTSNKRPSNSTPPP-----TQLNKKIKYSGGP	74
gi 557295947:96-1958	ENSEEVQQ-----QQ--QQTTSNKRPSNSAPPP-----TQLNKKIKYSGGP	96
gi 688564053:1400-2911	-----METPTKLPPSSP---SSPTTGFSVPSAEKVDGFPRRSMR	36
gi 657563479:1-1563	-----METTKLPPSSP---SSPTTSFVPSAEKVDGFPRRSMR	35
gi 115497699:359-1849	-----METKLPPASTPTSPSSPGLSPVPPDPKVDGFSRRSLR	37
gi 803191297:577-2067	-----METKLPPASTPTSPSSPGLSPVPPDPKVDGFSRRSLR	37
gi 60593006:48-1541	-----METKLPPASTPTSPSSPGLSPVPPDPKVDGFSRRSLR	37
gi 142364854:598-2091	-----METKLPPASTPTSPSSPGLSPVPPDPKVDGFSRRSLR	37
gb L42374.1 HUMPP2ABA:326-1819	-----METKLPPASTPTSPSSPGLSPVPPDPKVDGFSRRSLR	37
gi 587003404:628-2121	-----METKLPPASTPTSPSSPGLSPVPPDPKVDGFSRRSLR	37
gi 641793336:1879-3372	-----METKLPPAGTPTSPSSPGMSPVPPDPKVDGFSRRSLR	37
gi 557320144:379-1860	-----MEMKLTPAGTPSPSPGLSPVPPPEKVDGFSRRSLR	37
gi 51491868:454-1860	-----MSSAATTAPSVDKVDGFSRKSVR	23
gi 657554348:108-1517	-----MAMSSAATTSPSVDKVDGFSRKSVR	25
gi 641761822:526-1914	-----MSSAPTTPPSVDKVDGFSRKSVR	23
gi 557266651:182-1570	-----MSSAPTTPPSVDKVDGFSRKSVR	23
gi 586990135:195-1598	-----MSSAPTTPPSVDKVDGFSRKSVR	23
gi 532164714:591-1994	-----MSSAPTTPPSVDKVDGFSRKSVR	23

gi 134085748:529-1932	-----MSSAPTPPSVDKVDGFSRKSVR	23
gi 426233507:51-1454	-----MSSAPTPPSVDKVDGFSRKSVR	23
gi 55741699:574-1977	-----MSSAPTPPSVDKVDGFSRKSVR	23
gi 672056393:586-1989	-----MSSAPTPPSVDKVDGFSRKSVR	23
gi 528511094:406-1860	-----MSAISASEKVDGFTRKSVR	19
gi 657570088:928-2469	-----MSAISASEKVDGFTRKSMR	19
gi 557292702:1-1446	-----MEVTDGKGKIRAPEVKKKKRQDKG	24
gi 641796061:534-1967	-----MSAAISASEKVDGFTRKSVR	20
gi 118130061:626-2086	-----MSSPSPAPVACAAISASEKVDGFTRKSVR	30
gi 157823929:178-1638	-----MSSPSPAPVACAAISASEKVDGFTRKSVR	30
gi 126165211:499-1968	-----MSSSSPPPPAGAASAAISAAEKVDGFTRKSVR	33
gi 426240097:195-1664	-----MSSSSPPPPAGAASAAISAAEKVDGFTRKSVR	33
gb L42373.1 HUMPP2A:572-2032	-----MSSSSPPAGAASAAISASEKVDGFTRKSVR	30
gi 755806859:84-1547	-----MSSSSPPAGAAANAAISASEKVDGFTRKSVR	31
:		
gi 530584065:87-1661	-----SRMVVDAANSN----GPFQPVALLHIRDVPPAEQEKLFIQKLQCCVLFDFVSD	58
gi 557265256:74-1648	-----SRMVVDAANSN----GPFQPVALLHIRDVPPADQEKLFIQKLQCCVLFDFVSD	58
gi 755745075:318-1892	-----SRMVVDAANSN----GPFQPVALLHIRDVPPADQEKLFIQKLQCCVLFDFVSD	58
gi 555290051:121-1695	-----SGMVVDAASN----GPFQPVALLHIRDVPPADQEKLFIQKLQCCVLFDFVSD	58
gi 300798097:82-1656	-----SGMVVDAASN----GPFQPVALLHIRDVPPADQEKLFIQKLQCCVLFDFVSD	58
gi 240849335:141-1715	-----SRMVVDAANSN----GPFQPVVLLHIRDVPPADQEKLFIQKLQCCVLFDFVSD	58
gi 803180317:2708-4297	-----SRMVVDAANSN----GPFQPVALLHIRDVPPADQEKLFIQKLQCCVLFDFVSD	58
gi 134085945:20-1594	-----SRMVVDAASN----GPFQPVALLHIRDVPPADQEKLFIQKLQCCVLFDFVSD	58
gi 688603875:111-1688	---KDEARMVLDAAPSAN---GPFQPVALMHFRDVPPAEQEKLFIQKLQCCVLFDFVSD	58
gi 657585651:111-1688	-----GMVLDALSSN----GPFQPVALMHFRDVPPAEQEKLFIQKLQCCVLFDFVSD	58
gi 657585641:75-1811	TPVKKDKRQSSSRFSL----NNRELQKLPAFKDVPPAEQEKLFIQKLQCCVLFDFVSD	111
gi 50726891:63-1868	QIVKKERRQSSSRFNLS---KNRELQKLPAKLDAPPIDREELFVQKLQCCVLFDFVSD	121
gi 426251100:1-1800	QIVKKERRQSSSRFNLS---KNRELQKLPAKLDSPQEREELFIQKLQCCVLFDFVSD	130
gi 14669809:89-1873	QIVKKERRQSSFPFNLN---KNRELQKLPAKLDSPQEREELFIQKLQCCVLFDFVSD	126
gi 672023745:791-2578	QIVKKERRQSSSRFNLS---KNRELQKLPAKLDSPQEREELFIQKLQCCVLFDFVSD	127
gb L76702.1 HUMB56DA:188-1996	QIVKKERRQSSSRFNLS---KNRELQKLPAKLDSPQEREELFIQKLQCCVLFDFVSD	134
gi 329744635:107-1909	QIVKKERRQSSSRFNLS---KNRELQKLPAKLDSPQEREELFIQKLQCCVLFDFVSD	132
gi 755728309:140-1948	QIVKKERRQSSSRFNLS---KNRELQKLPAKLDSPQEREELFIQKLQCCVLFDFVSD	134
gi 641758569:96-1892	QIVKKERRHSSSRFNLT---KNRELQKLPAKLDAPAHREELFIQKLQCCVLFDFISD	130
gi 557295947:96-1958	QIVKKERRHSSSRFNLS---KNRELQKLPAKLDAPPHEREELFIQKLQCCVLFDFISD	152
gi 688564053:1400-2911	RAR-QRRSHSSSQFRYQSS--QVELTPLPLPKDAPVAELHDLFCKKLQCCVLFDFL-D	91
gi 657563479:1-1563	RAR-QRRSHSSSQFRYQSS--QVELTPLPLPKDAPVAELHDLFCKKLQCCVLFDFL-D	90
gi 115497699:359-1849	RAR-PRRSHSSSQFRYQSN--QVELTPLPLPKDVPASELHELLSRKLAQCGVMDFL-D	92
gi 803191297:577-2067	RAR-PRRSHSSSQFRXQSN--QVELTPLPLPKDVPASELHELLSRKLAQCGVMDFL-D	92
gi 60593006:48-1541	RAR-PRRSHSSSQFRYQSN--QVELTPLPLPKDVPASELHELLSRKLAQCGVMDFL-D	92
gi 142364854:598-2091	RAR-PRRSHSSSQFRYQSN--QVELTPLPLPKDVPASELHELLSRKLAQCGVMDFL-D	92
gb L42374.1 HUMPP2ABA:326-1819	RAR-PRRSHSSSQFRYQSN--QVELTPLPLPKDVPASELHELLSRKLAQCGVMDFL-D	92
gi 587003404:628-2121	RAR-PRRSHSSSQFRYQSN--QVELTPLPLPKDVPASELHELLSRKLAQCGVMDFL-D	92
gi 641793336:1879-3372	RSR-QRRSHSSSQFRYQSN--QVELTPLPLPKDVAELHELLCKKLQCCVLFDFL-D	92
gi 557320144:379-1860	RTR-PRRSHSSSQFRYQSS--QVELTPLPLPKDVAVELHELLGRKLQCCVLFDFL-D	92

gi 51491868:454-1860	KAR-QKRAQSSSQFRSQDK---	PIELVALPLLKDVSQAQPELFLKKLQQCCTLFDFM-D	78
gi 657554348:108-1517	KAK-QKRSQSSSQFRSQGK---	PIELTPLPLLKDVPAPEQPELFLKKLQQCCTVDFM-D	80
gi 641761822:526-1914	KAR-QKRSQSSSQFRSQGK---	PIELTPLPLLKDVPSSQPELFLKKLQQCCVIFDFM-D	78
gi 557266651:182-1570	KAR-QKRSQSSSQFRSQGK---	PIELTPLPLLKDVPSSQPELFLKKLQQCCVIFDFM-D	78
gi 586990135:195-1598	KAR-QKRSQSSSQFRSQGK---	PIELTPLPLLKDVPSSQPELFLKKLQQCCVIFDFM-D	78
gi 532164714:591-1994	KAR-QKRSQSSSQFRSQGK---	PIELTPLPLLKDVPSSQPELFLKKLQQCCVIFDFM-D	78
gi 134085748:529-1932	KAR-QKRSQSSSQFRSQGK---	PIELTPLPLLKDVPSSQPELFLKKLQQCCVIFDFM-D	78
gi 426233507:51-1454	KAR-QKRSQSSSQFRSQGK---	PIELTPLPLLKDVPSSQPELFLKKLQQCCVIFDFM-D	78
gi 55741699:574-1977	KAR-QKRSQSSSQFRSQGK---	PIELTPLPLLKDVPSSQPELFLKKLQQCCVIFDFM-D	78
gi 672056393:586-1989	KAR-QKRSQSSSQFRSQGK---	PIELTPLPLLKDVPSSQPELFLKKLQQCCVIFDFM-D	78
gi 528511094:406-1860	KAQRQRVCQGSSQFVNSSRPAPEISALPQLKDASSTEQHELFMQKLQQCCKLDFY-D		78
gi 657570088:928-2469	KAQKQRKSQSSQYRTQSA---	PVELSLPQLKDAPSTEQQELFTQKLQQCCMLDFL-D	75
gi 557292702:1-1446	RAKMRKRSQSSQFRSQSS---	QVELSLPQLKDATSNEQQELFCQKLQQCCILDFI-D	80
gi 641796061:534-1967	KAQRQKRSQSSQFRSQSS---	QVELSLPQLKDATSNEQQDLFCQKLQQCCILDFM-D	76
gi 118130061:626-2086	KAQRQKRSQSSQFRSQGS---	QAEHLPLPQLKDATSNEQQELFCQKLQQCCVLDFM-D	86
gi 157823929:178-1638	KAQRQKRSQSSQFRSQGS---	QAEHLPLPQLKDATSNEQQELFCQKLQQCCVLDFM-D	86
gi 126165211:499-1968	KAQRQKRSQSSQFRSQCS---	QPEHLPLPQLKDATSNEQQELFCQKLQQCCILDFM-D	89
gi 426240097:195-1664	KAQRQKRSQSSQFRSQCS---	QPEHLPLPQLKDATSNEQQELFCQKLQQCCILDFM-D	89
gb L42373.1 HUMPP2A:572-2032	KAQRQKRSQSSQFRSQGS---	QAEHLPLPQLKDATSNEQQELFCQKLQQCCILDFM-D	86
gi 755806859:84-1547	KAQRQKRSQSSQFRSQGS---	QAEHLPLPQLKDATSNEQQELFCQKLQQCCILDFM-D	87
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gi 530584065:87-1661	PLSDLKWKEVKRAALSEMVEYITHNRNVITEPIYPE-VVHMFVNMFRTPPSSNPTGAE	117
gi 557265256:74-1648	PLSDLKWKEVKRAALSEMVEYITHNRNVITEPIYPE-VVHMFVNMFRTPPSSNPTGAE	117
gi 755745075:318-1892	PLSDLKWKEVKRAALSEMVEYITHNRNVITEPIYPE-VVHMFVNMFRTPPSSNPTGAE	117
gi 555290051:121-1695	PLSDLKWKEVKRAALSEMVEYITHNRNVITEPIYPE-AVHMFVNMFRTPPSSNPTGAE	117
gi 300798097:82-1656	PLSDLKWKEVKRAALSEMVEYITHNRNVITEPIYPE-AVHMFVNMFRTPPSSNPTGAE	117
gi 240849335:141-1715	PLSDLKWKEVKRAALSEMVEYITHNRNVITEPIYPE-VVHMFVNMFRTPPSSNPTGAE	117
gi 803180317:2708-4297	PLSDLKWKEVKRAALSEMVEYITHNRNVITEPIYPE-VVHMFVNMFRTPPSSNPTGAE	117
gi 134085945:20-1594	PLSDLKWKEVKRAALSEMVEYITHNRNVITEPIYPE-VVHMFVNMFRTPPSSNPTGAE	117
gi 688603875:111-1688	PLSDLKWKEVKRAALSEMVEYITHNRNVITEPIYPE-VVHMFVNMFRTPPSSNPTGAE	117
gi 657585651:111-1688	PLSDLKWKEVKRAALSEMVEYITHNRNVITEPIYPE-VVHMFVNMFRTPPSSNPTGAE	117
gi 657585641:75-1811	PLSDLKWKEVKRAALSEMVEYITHNRNVITEPIYPE-VVHMFVNMFRTPPSSNPTGAE	170
gi 50726891:63-1868	PLSDLKYKEVKRAGLNEMVEYITHNRDVVTEIYPE-AVIMFSVNLFRTPPSSNPTGAE	180
gi 426251100:1-1800	PLSDLKFKEVKRAGLNEMVEYITHSRDVTETAIYGPCTPQFSVNLFRTPPSSNPTGAE	190
gi 14669809:89-1873	PLSDLKCKEVKRAGLNEMVEYITHSRDVTETAIYPEA-VTMFSVNLFRTPPSSNPTGAE	185
gi 672023745:791-2578	PLSDLKFKEVKRAGLNEMVEYITHSRDVTETAIYPEA-VTMFSVNLFRTPPSSNPTGAE	186
gb L76702.1 HUMB56DA:188-1996	PLSDLKFKEVKRAGLNEMVEYITHSRDVTETAIYPEA-VTMFSVNLFRTPPSSNPTGAE	193
gi 329744635:107-1909	PLSDLKFKEVKRAGLNEMVEYITHSRDVTETAIYPEA-VTMFSVNLFRTPPSSNPTGAE	191
gi 755728309:140-1948	PLSDLKFKEVKRAGLNEMVEYITHSRDVTETAIYPEA-VTMFSVNLFRTPPSSNPTGAE	193
gi 641758569:96-1892	PLSDLKFKEVKRAGLNEMVEYITHNRDVVTEIYPE-AVIMFSVNLFRTPPSSNPTGAE	189
gi 557295947:96-1958	PLSDLKFKEVKRAGLNEMVEYITHNRDVITEIYPE-AVIMFSVNLFRTPPSSNPTGAE	211
gi 688564053:1400-2911	CVADLKGKEIKRAALNELVESVATSRGVLIEPLYE-AIKMISVNIFRTPPSEN---E	147
gi 657563479:1-1563	CVADLKGKEIKRAALNELVESVATSRGVLIEPLYE-AIKMISVNIFRTPPSEN---E	146
gi 115497699:359-1849	CVADLKGKEVKRAALNELVECVGSTRGVLEPVYPD-IIRMISVNIFRTPPSEN---E	148
gi 803191297:577-2067	CVADLKGKEVKRAALNELVECVGSTRGVLEPVYPD-IIRMISVNIFRTPPSEN---E	148

gi	60593006:48-1541	CVADLKGKEVKRAALNELVECVGSTRGVLIIEPVYPD-IIRMISVNIFRTLPPSEN	---	E	148	
gi	142364854:598-2091	CVADLKGKEVKRAALNELVECVGCTRGVLIIEPVYPD-IIRMISVNIFRTLPPSEN	---	E	148	
gb	L42374.1 HUMPP2ABA:326-1819	CVADLKGKEVKRAALNELVECVGSTRGVLIIEPVYPD-IIRMISVNIFRTLPPSEN	---	E	148	
gi	587003404:628-2121	CVADLKGKEVKRAALNELVECVGSTRGVLIIEPVYPD-IIRMISVNIFRTLPPSEN	---	E	148	
gi	641793336:1879-3372	CVADLKGKEIKRAALNELVECVATNRGVLIIEPVYPE-IIKMISVNIFRTLPP	TEN	---	E	148
gi	557320144:379-1860	PVADLKGKEVKRAALAEELVECVATARGLLIEPTYPE-AVRMISVNIFRTLPPSEN	---	E	148	
gi	51491868:454-1860	TLSDLKMKEYKRSTLNELVDYVTLRSGYLTEQTYPE-VVKMVSYNIFRTLPPSDSN	---	E	134	
gi	657554348:108-1517	TLSDLKMKEYKRSTLNELVDYVTVSRGYLTEQAYPE-VVKMVSHNIFRTLPPSDSN	---	E	136	
gi	641761822:526-1914	TLSDLKMKEYKRSTLNELVDYITISRGCLTEQTYPE-VVRMVSCNIFRTLPPSDSN	---	E	134	
gi	557266651:182-1570	TLSDLKMKEYKRSTLNELVDYITISRGCLTEQTYPE-VVRMVSCNIFRTLPPSDSN	---	E	134	
gi	586990135:195-1598	TLSDLKMKEYKRSTLNELVDYITISRGCLTEQTYPE-VVRMVSCNIFRTLPPSDSN	---	E	134	
gi	532164714:591-1994	TLSDLKMKEYKRSTLNELVDYITISRGCLTEQTYPE-VVRMVSCNIFRTLPPSDSN	---	E	134	
gi	134085748:529-1932	TLSDLKMKEYKRSTLNELVDYITISRGCLTEQTYPE-VVRMVSCNIFRTLPPSDSN	---	E	134	
gi	426233507:51-1454	TLSDLKMKEYKRSTLNELVDYITISRGCLTEQTYPE-VVRMVSCNIFRTLPPSDSN	---	E	134	
gi	55741699:574-1977	TLSDLKMKEYKRSTLNELVDYITISRGCLTEQTYPE-VVRMVSCNIFRTLPPSDSN	---	E	134	
gi	672056393:586-1989	TLSDLKMKEYKRSTLNELVDYITISRGCLTEQTYPE-VVRMVSCNIFRTLPPSDSN	---	E	134	
gi	528511094:406-1860	TVTDLKSKETKRATLSELVDYVSTNRGVLEVPVYPE-ITTMVSTNIFRTLPPSEN	---	D	134	
gi	657570088:928-2469	SVTDLKSKEIKRATLNELVDFVSTNRGVLVESAYPE-ITNMISTNIFRALPPSDNP	---	D	131	
gi	557292702:1-1446	SVSDLKSKEIKRATLNELVEYVSTNRGVLEVPAYAD-IVKMISSNIFRTLPPSDNP	---	D	136	
gi	641796061:534-1967	SVSDLKSKEIKRATLNELVEYVSTTRGVVIVESAYAD-IVKMISSNIFRTLPPSDNP	---	D	132	
gi	118130061:626-2086	SVSDLKSKEIKRATLNELVEYVSTNRGVVIVESAYS	D-IVKMISANIFRTLPPSDNP	---	D	142
gi	157823929:178-1638	SVSDLKSKEIKRATLNELVEYVSTNRGVVIVESAYS	D-IVKMISANIFRTLPPSDNP	---	D	142
gi	126165211:499-1968	SVSDLKSKEIKRATLNELVEYVSTNRGVVIVESAYS	D-IVKMISANIFRTLPPSDNP	---	D	145
gi	426240097:195-1664	SVSDLKSKEIKRATLNELVEYVSTNRGVVIVESAYS	D-IVKMISANIFRTLPPSDNP	---	D	145
gb	L42373.1 HUMPP2A:572-2032	SVSDLKSKEIKRATLNELVEYVSTNRGVVIVESAYS	D-IVKMISANIFRTLPPSDNP	---	D	142
gi	755806859:84-1547	SVSDLKSKEIKRATLNELVEYVSTNRGVVIVESAYS	D-IVKMISANIFRTLPPSDNP	---	D	143
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gi	530584065:87-1661	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNVAKKYIDQKFVLQELLEFDSEDPR	177
gi	557265256:74-1648	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLQELLEFDSEDPR	177
gi	755745075:318-1892	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLQELLEFDSEDPR	177
gi	555290051:121-1695	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLQELLEFDSEDPR	177
gi	300798097:82-1656	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLQELLEFDSEDPR	177
gi	240849335:141-1715	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLQELLEFDSEDPR	177
gi	803180317:2708-4297	FDPEEDEPTLEAAWPHLQLVYEFFLRLLESPDFQPNIAKKYIDQKFVLQELLEFDSEDPR	177
gi	134085945:20-1594	FDPEEDEPTLEAAWPHLQLVYEFFLRLLESPDFQPNIAKKYIDQKFVLQELLEFDSEDPR	177
gi	688603875:111-1688	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLQELLEFDSEDPR	177
gi	657585651:111-1688	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVMLLEFDSEDPR	177
gi	657585641:75-1811	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVMLLEFDSEDPR	230
gi	50726891:63-1868	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLSLLEFDSEDPR	240
gi	426251100:1-1800	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLALLDLFDSEDPR	250
gi	14669809:89-1873	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLALLDLFDSEDPR	245
gi	672023745:791-2578	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLALLDLFDSEDPR	246
gb	L76702.1 HUMB56DA:188-1996	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLALLDLFDSEDPR	253
gi	329744635:107-1909	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLALLDLFDSEDPR	251
gi	755728309:140-1948	FDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLALLDLFDSEDPR	253

gi 641758569:96-1892	FDPEEDEPTLEAAWPHLQLVYEFFLRFLFESPDFQPNIAKKYIDQKFVLSLLDLFDSEDPR	249
gi 557295947:96-1958	FDPEEDEPTLEAAWPHLQLVYEFFLRFLFESPDFQPNVAKKYIDQKFVLSLLDLFDSEDPR	271
gi 688564053:1400-2911	FDPEEDEPALEASWPHLQLVYEFFLRFLFESPDFQPSLAKRYVDQKFVLQLELFDSEDPR	207
gi 657563479:1-1563	FDPEEDEPTLEASWPHLQLVYEFFLRFLFESPDFQPSMAKRYVDQKFVLQLELFDSEDPR	206
gi 115497699:359-1849	FDPEEDEPNLEPSWPHLQLVYEFFLRFLFESPDFQPSVAKRYVDQKFVLMLELFDSEDPR	208
gi 803191297:577-2067	FDPEEDEPNLEPSWPHLQLVYEFFLRFLFESPDFQPSVAKRYVDQKFVLMLELFDSEDPR	208
gi 60593006:48-1541	FDPEEDEPNLEPSWPHLQLVYEFFLRFLFESPDFQPSVAKRYVDQKFVLMLELFDSEDPR	208
gi 142364854:598-2091	FDPEEDEPNLEPSWPHLQLVYEFFLRFLFESPDFQPSVAKRYVDQKFVLMLELFDSEDPR	208
gb L42374.1 HUMPP2ABA:326-1819	FDPEEDEPNLEPSWPHLQLVYEFFLRFLFESPDFQPSVAKRYVDQKFVLMLELFDSEDPR	208
gi 587003404:628-2121	FDPEEDEPNLEPSWPHLQLVYEFFLRFLFESPDFQPSVAKRYVDQKFVLMLELFDSEDPR	208
gi 641793336:1879-3372	FDPEEDEPNLEPSWPHLQLVYEFFLRFLFESPDFQPSVAKRYVDQKFVLLLELFDSEDPR	208
gi 557320144:379-1860	FDPEEDEPNLEPSWPHLQLVYEFFLRFLFESPDFQPSVAKRYVDQKFVLMLELFDSEDPR	208
gi 51491868:454-1860	FDPEEDEPTLEASWPHLQLVYEFFIRFLFESQEFQPSAAKKYIDQKFVLQLELFDSEDPR	194
gi 657554348:108-1517	FDPEEDEPTLEASWPHLQLVYEFFIRFLFESQEFQPSIAKKYIDQKFVLQLELFDSEDPR	196
gi 641761822:526-1914	FDPEEDEPTLEASWPHLQLVYEFFIRFLFESQEFQPSIAKKYIDQKFVLQLELFDSEDPR	194
gi 557266651:182-1570	FDPEEDEPTLEASWPHLQLVYEFFIRFLFESQEFQPSIAKKYIDQKFVLQLELFDSEDPR	194
gi 586990135:195-1598	FDPEEDEPTLEASWPHLQLVYEFFIRFLFESQEFQPSIAKKYIDQKFVLQLELFDSEDPR	194
gi 532164714:591-1994	FDPEEDEPTLEASWPHLQLVYEFFIRFLFESQEFQPSIAKKYIDQKFVLQLELFDSEDPR	194
gi 134085748:529-1932	FDPEEDEPTLEASWPHLQLVYEFFIRFLFESQEFQPSIAKKYIDQKFVLQLELFDSEDPR	194
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gi 672056393:586-1989	FDPEEDEPTLEASWPHLQLVYEFFIRFLFESQEFQPSIAKKYIDQKFVLQLELFDSEDPR	194
gi 528511094:406-1860	FDPEEDEPTLEASWPHMQLVYEFFLRFLFENPDFQPSIAKRYIDQKFVLQLELFDSEDPR	194
gi 657570088:928-2469	FDPEEDEPTLEASWPHMQLVYEFFLRFLFENPDFQPSIAKRHIDQKFVLQLELFDSEDPR	191
gi 557292702:1-1446	FDPEEDEPTLEASWPHIQLVYEFFLRFLFESLDFQPSIAKRYIDQKFVQQLLELFDSEDPR	196
gi 641796061:534-1967	FDPEEDEPTLEASWPHIQLVYEFFLRFLFESPDFQPSIAKRYIDQKFVQQLLELFDSEDPR	192
gi 118130061:626-2086	FDPEEDEPTLEASWPHIQLVYEFFLRFLFESPDFQPSIAKRYIDQKFVQQLLELFDSEDPR	202
gi 157823929:178-1638	FDPEEDEPTLEASWPHIQLVYEFFLRFLFESPDFQPSIAKRYIDQKFVQQLLELFDSEDPR	202
gi 126165211:499-1968	FDPEEDEPTLEASWPHIQLVYEFFLRFLFESPDFQPSIAKRYIDQKFVQQLLELFDSEDPR	205
gi 426240097:195-1664	FDPEEDEPTLEASWPHIQLVYEFFLRFLFESPDFQPSIAKRYIDQKFVQQLLELFDSEDPR	205
gb L42373.1 HUMPP2A:572-2032	FDPEEDEPTLEASWPHIQLVYEFFLRFLFESPDFQPSIAKRYIDQKFVQQLLELFDSEDPR	202
gi 755806859:84-1547	FDPEEDEPTLEASWPHIQLVYEFFLRFLFESPDFQPSIAKRYIDQKFVQQLLELFDSEDPR	203
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gi 557265256:74-1648	ERDFLKTTLHRIYGKFLGLRAYIRKQINNIFYRFIYETEHNGIAELLEILGSIINGFAL	237
gi 755745075:318-1892	ERDFLKTTLHRIYGKFLGLRAYIRKQINNIFYRFIYETEHNGIAELLEILGSIINGFAL	237
gi 555290051:121-1695	ERDFLKTTLHRIYGKFLGLRAYIRKQINNIFYRFIYETEHNGIAELLEILGSIINGFAL	237
gi 300798097:82-1656	ERDFLKTTLHRIYGKFLGLRAYIRKQINNIFYRFIYETEHNGIAELLEILGSIINGFAL	237
gi 240849335:141-1715	ERDFLKTTLHRIYGKFLGLRAYIRKQINNIFYRFIYETEHNGIAELLEILGSIINGFAL	237
gi 803180317:2708-4297	ERDFLKTTLHRIYGKFLGLRAYIRKQINNIFYRFIYETEHNGIAELLEILGSIINGFAL	237
gi 134085945:20-1594	ERDFLKTTLHRIYGKFLGLRAYIRKQINNIFYRFIYETEHNGIAELLEILGSIINGFAL	237
gi 688603875:111-1688	ERDFLKTTLHRIYGKFLGLRAYIRKQINNIFYRFIYETEHNGIAELLEILGSIINGFAL	237
gi 657585651:111-1688	ERDFLKTTLHRIYGKFLGLRAYIRKQINNIFYRFIYETEHNGIAELLEILGSIINGFAL	237
gi 657585641:75-1811	ERDFLKTTLHRIYGKFLGLRAYIRKQINNIFYRFIYETEHNGIAELLEILGSIINGFAL	290
gi 50726891:63-1868	ERDFLKTTILHRIYGKFLGLRAYIRKQINNIFYRFIYETEHNGIAELLEILGSIINGFAL	300

gi	426251100:1-1800	ERDFLKTILHRIYGKFLGLRAYIRRRQINHFYRFIYETEHNGIAELLEILGSIINGFAL	310
gi	14669809:89-1873	ERDFLKTILHRIYGKFLGLRAYIRRRQINHFYRFIYETEHNGIAELLEILGSIINGFAL	305
gi	672023745:791-2578	ERDFLKTILHRIYGKFLGLRAYIRRRQINHFYRFIYETEHNGIAELLEILGSIINGFAL	306
gb	L76702.1 HUMB56DA:188-1996	ERDFLKTILHRIYGKFLGLRAYIRRRQINHFYRFIYETEHNGIAELLEILGSIINGFAL	313
gi	329744635:107-1909	ERDFLKTILHRIYGKFLGLRAYIRRRQINHFYRFIYETEHNGIAELLEILGSIINGFAL	311
gi	755728309:140-1948	ERDFLKTILHRIYGKFLGLRAYIRRRQINHFYRFIYETEHNGIAELLEILGSIINGFAL	313
gi	641758569:96-1892	ERDFLKTILHRIYGKFLGLRAYVRRQINNIFYRFIYETEHNGIAELLEILGSIINGFAL	309
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gi	688564053:1400-2911	EREYLKTIHHRVYGKLLGLRAYIRKQINNIFLRFIYETERFNGVAELLEILGSIINGFAL	267
gi	657563479:1-1563	EREYLKTIHHRVYGKLLGLRAYIRKQINNIFLRFIYETEHEFNGVAELLEILGSIINGFAL	266
gi	115497699:359-1849	EREYLKTIHHRVYGKFLGLRAYIRKQCESHIFLRFIYEFEHFNGVAELLEILGSIINGFAL	268
gi	803191297:577-2067	EREYLKTIHHRVYGKFLGLRAYIRKQCESHIFLRFIYEFEHFNGIAELLEILGSIINGFAL	268
gi	60593006:48-1541	EREYLKTIHHRVYGKFLGLRAYIRKQCNHIFLRFIYELEHFNGVAELLEILGSIINGFAL	268
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gi	51491868:454-1860	ERDCLKTVLHRIYGKFLGLRAFIRKQINNIFLCFVYETERFNGVAELLEILGSIINGFAL	254
gi	657554348:108-1517	ERDYLKTVLHRIYGKFLGLRAFIRKQINNIFLRFVYTEHEFNGVAELLEILGSIINGFAL	256
gi	641761822:526-1914	ERDYLKTVLHRIYGKFLGLRAFIRKQINNIFLRFVYTEHEFNGVAELLEILGSIINGFAL	254
gi	557266651:182-1570	ERDYLKTVLHRIYGKFLGLRAFIRKQINNIFLRFVYTEHEFNGVAELLEILGSIINGFAL	254
gi	586990135:195-1598	ERDYLKTVLHRIYGKFLGLRAFIRKQINNIFLRFVYTEHEFNGVAELLEILGSIINGFAL	254
gi	532164714:591-1994	ERDYLKTVLHRIYGKFLGLRAFIRKQINNIFLRFVYTEHEFNGVAELLEILGSIINGFAL	254
gi	134085748:529-1932	ERDYLKTVLHRIYGKFLGLRAFIRKQINNIFLRFVYTEHEFNGVAELLEILGSIINGFAL	254
gi	426233507:51-1454	ERDYLKTVLHRIYGKFLGLRAFIRKQINNIFLRFVYTEHEFNGVAELLEILGSIINGFAL	254
gi	55741699:574-1977	ERDYLKTVLHRIYGKFLGLRAFIRKQINNIFLRFVYTEHEFNGVAELLEILGSIINGFAL	254
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gi	528511094:406-1860	EREFLKTIHRIYGKFLGLRAFIRKQINNIFLRFIYETEHEFNGVAELLEILGSIINGFAL	254
gi	657570088:928-2469	ERDFLKTILHRIYGKFLGLRAFIRKQINNIFLRFIYETEHEFNGVAELLEILGSIINGFAL	251
gi	557292702:1-1446	ERDFLKTIVLHRIYGKFLGLRAFIRKQINNIFLRFIYETEHEFNGVAELLEILGSIINGFAL	256
gi	641796061:534-1967	ERDFLKTIVLHRIYGKFLGLRAFIRKQINNIFLRFIYETEHEFNGVAELLEILGSIINGFAL	252
gi	118130061:626-2086	ERDFLKTIVLHRIYGKFLGLRAFIRKQINNIFLRFIYETEHEFNGVAELLEILGSIINGFAL	262
gi	157823929:178-1638	ERDFLKTIVLHRIYGKFLGMRAFIRKQTNNIFLRFIYETEHEFNGVAELLEILGSIINGFAL	262
gi	126165211:499-1968	ERDFLKTIVLHRIYGKFLGLRAFIRKQINNIFLRFIYETEHEFNGVAELLEILGSIINGFAL	265
gi	426240097:195-1664	ERDFLKTIVLHRIYGKFLGLRAFIRKQINNIFLRFIYETEHEFNGVAELLEILGSIINGFAL	265
gb	L42373.1 HUMPP2A:572-2032	ERDFLKTIVLHRIYGKFLGLRAFIRKQINNIFLRFIYETEHEFNGVAELLEILGSIINGFAL	262
gi	755806859:84-1547	ERDFLKTIVLHRIYGKFLGLRAFIRKQINNIFLRFIYETEHEFNGVAELLEILGSIINGFAL	263
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gi	755745075:318-1892	PLKEEHKIFLLKVLLPLHKVKSLSVYHPQLAYCVVQFLEKDSTLTPEVVMALLKYWPKTH	297
gi	555290051:121-1695	PLKEEHKIFLLKVLLPLHKVKSLSVYHPQLAYCVVQFLEKDSTLTPEVVMALLKYWPKTH	297
gi	300798097:82-1656	PLKEEHKIFLLKVLLPLHKVKSLSVYHPQLAYCVVQFLEKDSTLTPEVVMALLKYWPKTH	297
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gi 688603875:111-1688	PLKEEHKIFLLKVLPLHKVKSLSVYHPQLAYCVVQFLEKDSTLTEPVVMALLKYWPKTH	297
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gi 426251100:1-1800	PLKEEHKMFILRVLLPLHKVKSLSVYHPQLAYCVVQFLEKESSTTEPVIVGLLKFWPKTH	370
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gi 672023745:791-2578	PLKEEHKMFILRVLLPLHKVKSLSVYHPQLAYCVVQFLEKESSTTEPVIVGLLKFWPKTH	366
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gi 329744635:107-1909	PLKEEHKMFILRVLLPLHKVKSLSVYHPQLAYCVVQFLEKESSTTEPVIVGLLKFWPKTH	371
gi 755728309:140-1948	PLKEEHKMFILRVLLPLHKVKSLSVYHPQLAYCVVQFLEKESSTTEPVIVGLLKFWPKTH	373
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gi 557295947:96-1958	PLKEEHKMFILRVLLPLHKVKSLSVYHPQLAYCVVQFLEKDSSLTEPVIMGLLKFWPKTH	391
gi 688564053:1400-2911	PLKSEHKQFLVRVLIPLHTAKSLSIFFHAQLAYCVVQFMEKDATVTEHIIRGLLRYWPKTC	327
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gi 51491868:454-1860	PLKAEHKQFLVKVLIPLHTVRSLSLFHAQLAYCIVQFLEKDPTLTEPVIRGLLKFWPKTC	314
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gi 641761822:526-1914	PLKAEHKQFLVKVLIPLHTVRSLSLFHAQLAYCIVQFLEKDPSLTEPVIRGLMKFWPKTC	314
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gi 557292702:1-1446	PLKAEHKQFLMKVLIPLHTAKGLALFHAQLAYCVVQFLEKETTLETEPVIRGLLKFWPKTC	316
gi 641796061:534-1967	PLKAEHKQFLMKVLIPLHTAKGLALFHAQLAYCVVQFLEKDTTLETEPVIRGLLKFWPKTC	312
gi 118130061:626-2086	PLKAEHKQFLMKVLIPLHTAKGLALFHAQLAYCVVQFLEKDTTLETEPVIRGLLKFWPKTC	322
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gi 126165211:499-1968	PLKAEHKQFLMKVLIPLHTAKGLALFHAQLAYCVVQFLEKDTTLETEPVIRGLLKFWPKTC	325
gi 426240097:195-1664	PLKAEHKQFLMKVLIPLHTAKGLALFHAQLAYCVVQFLEKDTTLETEPVIRGLLKFWPKTC	325
gb L42373.1 HUMPP2A:572-2032	PLKAEHKQFLMKVLIPLHTAKGLALFHAQLAYCVVQFLEKDTTLETEPVIRGLLKFWPKTC	322
gi 755806859:84-1547	PLKAEHKQFLMKVLIPLHTAKGLALFHAQLAYCVVQFLEKDTTLETEPVIRGLLKFWPKTC	323
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gi 557265256:74-1648	SPKEVMFLNELEEILDVIEPSEFVKVMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	357
gi 755745075:318-1892	SPKEVMFLNELEEILDVIEPSEFVKVMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	357
gi 555290051:121-1695	SPKEVMFLNELEEILDVIEPSEFVKIMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	357
gi 300798097:82-1656	SPKEVMFLNELEEILDVIEPSEFVKIMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	357
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gi 803180317:2708-4297	SPKEVMFLNELEEILDVIEPSEFVKIMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	357
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gi 688603875:111-1688	SPKEVMFLNELEEILDVIEPSEFVKVMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	357
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gi 657585641:75-1811	SPKEVMFLNELEEILDVIEPSEFVKVMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	410
gi 50726891:63-1868	SPKEVMFLNELEEILDVIEPSEFVKVMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	420
gi 426251100:1-1800	SPKEVMFLNELEEILDVIEPSEFSKVMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	430
gi 14669809:89-1873	SPKEVMFLNELEEILDVIEPSEFSKVMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	425
gi 672023745:791-2578	SPKEVMFLNELEEILDVIEPSEFSKVMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	426
gb L76702.1 HUMB56DA:188-1996	SPKEVMFLNELEEILDVIEPSEFSKVMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	433
gi 329744635:107-1909	SPKEVMFLNELEEILDVIEPSEFSKVMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	431
gi 755728309:140-1948	SPKEVMFLNELEEILDVIEPSEFSKVMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	433
gi 641758569:96-1892	SPKEVMFLNELEEILDVIEPSEFVKVMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	429
gi 557295947:96-1958	SPKEVMFLNELEEILDVIEPSEFVKVMEPLFRQLAKCVSSPHFQVAERALYYWNNNEYIMS	451
gi 688564053:1400-2911	TQKEVMFLGEIEEILDVIEPSQFIRVQEPLFKQIAACISSPHFQVAERALYFWNNNEYILS	387
gi 657563479:1-1563	TQKEVMFLGEIEEILDVIEPSQFIRVQEPLFKQIAACISSPHFQVAERALYFWNNNEYILS	386
gi 115497699:359-1849	TQKEVMFLGEMEEILDVIEPSQFVKIQEPLFKQVARCVSSPHFQVAERALYFWNNNEYILS	388
gi 803191297:577-2067	TQKEVMFLGEMEEILDVIEPSQFVKIQEPLFKQVARCVSSPHFQVAERALYFWNNNEYILS	388
gi 60593006:48-1541	TQKEVMFLGEMEEILDVIEPSQFVKIQEPLFKQVARCVSSPHFQVAERALYFWNNNEYILS	388
gi 142364854:598-2091	TQKEVMFLGEMEEILDVIEPSQFVKIQEPLFKQVARCVSSPHFQVAERALYFWNNNEYILS	388
gb L42374.1 HUMPP2ABA:326-1819	TQKEVMFLGEMEEILDVIEPSQFVKIQEPLFKQVARCVSSPHFQVAERALYFWNNNEYILS	388
gi 587003404:628-2121	TQKEVMFLGEMEEILDVIEPSQFVKIQEPLFKQVARCVSSPHFQVAERALYFWNNNEYILS	388
gi 641793336:1879-3372	TQKEVMFLGEIEEILDVIEPSQFVKVQEPLFKQIARCISSPHFQVAERALYFWNNNEYILS	388
gi 557320144:379-1860	TQKEVMFLGEIEEILDVIEPSQFVKVQQPLFKQVAQCIASPHFQVAERALYFWNNNEYILS	388
gi 51491868:454-1860	SQKEVMFLGELEEILDVIEPTQFVKIQELLFKQIARCVSSPHFQVAERALYYWNNNEYIMS	374
gi 657554348:108-1517	SQKEVMFLGELEEILDVIEPTQFVKIQEPLFKQISRCVSSPHFQVAERALYYWNNNEYIMS	376
gi 641761822:526-1914	SQKEVMFLGELEEILDVIEPSQFVKIQEPLFKQIAKCVSSPHFQVAERALYYWNNNEYIMS	374
gi 557266651:182-1570	SQKEVMFLGELEEILDVIEPSQFVKIQEPLFKQIAKCVSSPHFQVAERALYYWNNNEYIMS	374
gi 586990135:195-1598	SQKEVMFLGELEEILDVIEPSQFVKIQEPLFKQIAKCVSSPHFQVAERALYYWNNNEYIMS	374
gi 532164714:591-1994	SQKEVMFLGELEEILDVIEPSQFVKIQEPLFKQIAKCVSSPHFQVAERALYYWNNNEYIMS	374
gi 134085748:529-1932	SQKEVMFLGELEEILDVIEPSQFVKIQEPLFKQIAKCVSSPHFQVAERALYYWNNNEYIMS	374
gi 426233507:51-1454	SQKEVMFLGELEEILDVIEPSQFVKIQEPLFKQIAKCVSSPHFQVAERALYYWNNNEYIMS	374
gi 55741699:574-1977	SQKEVMFLGELEEILDVIEPSQFVKIQEPLFKQIAKCVSSPHFQVAERALYYWNNNEYIMS	374
gi 672056393:586-1989	SQKEVMFLGELEEILDVIEPSQFVKIQEPLFKQIAKCVSSPHFQVAERALYYWNNNEYIMS	374
gi 528511094:406-1860	SQKEVMFLGEIEEILDVIEPTQFKKIQEPLFKQIAKCVASPHFQVAERALYYWNNNEYILS	374
gi 657570088:928-2469	SQKEVMFLGEIEEILDVIEPTQFKKIQEPLFKQISKVANPHFQVAERALYFWNNNEYILS	371
gi 557292702:1-1446	SQKEVMFLGEIEEILDVIEPTQFKKIEEPLFKQISKCVSSSHFQVAERALYFWNNNEYILS	376
gi 641796061:534-1967	SQKEVMFLGEIEEILDVIEPTQFKKIEEPLFKQISKCVSSSHFQVAERALYFWNNNEYILS	372
gi 118130061:626-2086	SQKEVMFLGEIEEILDVIEPTQFKKIEEPLFKQISKCVSSSHFQVAERALYFWNNNEYILS	382
gi 157823929:178-1638	SQKEVMFLGEIEEILDVIEPTQFKKIEEPLFKQISKCVSSSHFQVAERALYFWNNNEYILS	382

gi 126165211:499-1968	SQKEVMFLGEIEEILDVIEPTQFKKIEEPLFKQISKCVSSSHFQVAERALYFWNNEYILS	385
gi 426240097:195-1664	SQKEVMFLGEIEEILDVIEPTQFKKIEEPLFKQISKCVSSSHFQVAERALYFWNNEYILS	385
gb L42373.1 HUMPP2A:572-2032	SQKEVMFLGEIEEILDVIEPTQFKKIEEPLFKQISKCVSSSHFQVAERALYFWNNEYILS	382
gi 755806859:84-1547	SQKEVMFLGEIEEILDVIEPTQFKKIEEPLFKQISKCVSSSHFQVAERALYFWNNEYILS	383
	: ***** *:*****:* :: : **:*: : *:.. *****:*****.*	
gi 530584065:87-1661	LISDNAAKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAEKL	417
gi 557265256:74-1648	LISDNAAKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAEKL	417
gi 755745075:318-1892	LISDNAAKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAEKL	417
gi 555290051:121-1695	LISDNAAKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAEKL	417
gi 300798097:82-1656	LISDNAAKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAEKL	417
gi 240849335:141-1715	LISDNAAKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAEKL	417
gi 803180317:2708-4297	LISDNAAKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAEKL	417
gi 134085945:20-1594	LISDNAAKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAEKL	417
gi 688603875:111-1688	LISDNAAKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAEN	417
gi 657585651:111-1688	LISDNAAKILPIMFPALYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAES	417
gi 657585641:75-1811	LISDNAAKILPIMFPALYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAES	470
gi 50726891:63-1868	LISDNAAKILPIMFPALYKNSKSHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKAQ	480
gi 426251100:1-1800	LISDNAARVLPIMFPALYRNSKSHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKAQ	490
gi 14669809:89-1873	LISDNAARILPIMFPALYRNSKSHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKAQ	485
gi 672023745:791-2578	LISDNAARVLPIMFPALYRNSKSHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKAQ	486
gb L76702.1 HUMB56DA:188-1996	LISDNAARVLPIMFPALYRNSKSHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKAQ	493
gi 329744635:107-1909	LISDNAARVLPIMFPALYRNSKSHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKAQ	491
gi 755728309:140-1948	LISDNAARVLPIMFPALYRNSKSHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKAQ	493
gi 641758569:96-1892	LISDNAAKILPIMFPALYKNSKSHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKAQ	489
gi 557295947:96-1958	LISDNAAKILPIMFPALYKNSKSHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKAQ	511
gi 688564053:1400-2911	LIEENCQVILPLVFGTLYRVSKEHWNQTIISLIYNVLKTFMEMNSKLFDDLASYKVEKQ	447
gi 657563479:1-1563	LIEENCQVILPLVFATLYRVSKEHWNQTIIVSLIYNVLKTFMEMNSKLFDDLASYKVEKQ	446
gi 115497699:359-1849	LIEDNCHTVLPAVFGTLYQVSKEHWNQTIIVSLIYNVLKTFMEMNGKLFDELTASYKLEKQ	448
gi 803191297:577-2067	LIEDNCHTVLPAVFGTLYQVSKEHWNQTIIVSLIYNVLKTFMEMNGKLFDELTASYKLEKQ	448
gi 60593006:48-1541	LIEDNCHTVLPAVFGTLYQVSKEHWNQTIIVSLIYNVLKTFMEMNGKLFDELTASYKLEKQ	448
gi 142364854:598-2091	LIEDNCHTVLPAVFGTLYQVSKEHWNQTIIVSLIYNVLKTFMEMNGKLFDELTASYKLEKQ	448
gb L42374.1 HUMPP2ABA:326-1819	LIEDNCHTVLPAVFGTLYQVSKEHWNQTIIVSLIYNVLKTFMEMNGKLFDELTASYKLEKQ	448
gi 587003404:628-2121	LIEDNCHTVLPAVFGTLYQVSKEHWNQTIIVSLIYNVLKTFMEMNGKLFDELTASYKLEKQ	448
gi 641793336:1879-3372	LIEDNCHTVLPAIFGTLYRVSKEHWNQTIIVSLVYNVLKTFMEMNGKLFDELTASYKVEKQ	448
gi 557320144:379-1860	LIEDNCQAVLPAIFGTLYRVSKEHWNQTIIVSLVYNVLKTFMEMNGKLFDELTASYKLEKQ	448
gi 51491868:454-1860	LIEENCSAILPIMFASLYRISKEHWNPAISALIYNVLKAFMEMNSALFDELAASYKSDRQ	434
gi 657554348:108-1517	LIEENSSVILPIMFASLYRISKEHWNPAIVALVYNVLKAFMEMNSTLFDELTATYKSDRQ	436
gi 641761822:526-1914	LIEENSNVILPIMFSSLYRISKEHWNPAIVALVYNVLKAFMEMNSTMFDELATATYN----	430
gi 557266651:182-1570	LIEENSNVILPIMFSSLYRISKEHWNPAIVALVYNVLKAFMEMNSTMFDELATATYN----	430
gi 586990135:195-1598	LIEENSNVILPIMFSSLYRIXKEHWNPAIVALVYNVLKAFMEMNSTMFDELATYKSDRQ	434
gi 532164714:591-1994	LIEENSNVILPIMFSSLYRISKEHWNPAIVALVYNVLKAFMEMNSTMFDELATYKSDRQ	434
gi 134085748:529-1932	LIEENSNVILPIMFSSLYRISKEHWNPAIVALVYNVLKAFMEMNSTMFDELATYKSDRQ	434
gi 426233507:51-1454	LIEENSNVILPIMFSSLYRISKEHWNPAIVALVYNVLKAFMEMNSTMFDELATYKSDRQ	434
gi 55741699:574-1977	LIEENSNVILPIMFSSLYRISKEHWNPAIVALVYNVLKAFMEMNSTMFDELATYKSDRQ	434
gi 672056393:586-1989	LIEENSNVILPIMFSSLYRISKEHWNPAIVALVYNVLKAFMEMNSTMFDELATYKSDRQ	434

gi 528511094:406-1860	LIEENNAKIFPIMFGNLYRISKEHWNPTIVALVYNVLKTMEMNSKLFDELTTSYKSDRQ	434
gi 657570088:928-2469	LIEENIDKVLPIPMFGSLYRISKEHWNPTIVALVYNVLKTLMEMNCTLFDELTTSSYKADRQ	431
gi 557292702:1-1446	LIEENIDKILPIMFGSLYKISKEHWNPTIVALVYNVLKTLMEMNGKLFDELTTSTYKAERQ	436
gi 641796061:534-1967	LIEENINKILPIMFGSLYKISKEHWNPTIVALVYNVLKTLMEMNGKLFDELTTSSYKAERQ	432
gi 118130061:626-2086	LIEENIDKILPIMFASLYKISKEHWNPTIVALVYNVLKTLMEMNGKLFDDLTTSSYKAERQ	442
gi 157823929:178-1638	LIEENIDKILPIMFASLYKISKEHWNPTIVALVYNVLKTLMEMNGKLFDDLTTSSYKAERQ	442
gi 126165211:499-1968	LIEENIDKILPIMFGSLYKISKEHWNPTIVALVYNVLKTLMEMNGKLFDDLTTSSYKAERQ	445
gi 426240097:195-1664	LIEENIDKILPIMFGSLYKISKEHWNPTIVALVYNVLKTLMEMNGKLFDDLTTSSYKAERQ	445
gb L42373.1 HUMPP2A:572-2032	LIEENIDKILPIMFASLYKISKEHWNPTIVALVYNVLKTLMEMNGKLFDDLTTSSYKAERQ	442
gi 755806859:84-1547	LIEENIDKILPIMFGSLYKISKEHWNPTIVALVYNVLKTLMEMNGKLFDDLTTSSYKAERQ	443
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gi 530584065:87-1661	KEKLKSKEREEAWVKIENLAKSNPQYPTYS DTSV-----LNSPVAMETDGPLI	465
gi 557265256:74-1648	KEKLKSKEREEAWVKIENLAKSNPQYPVYS DTSV-----LNSPVAMETDGPLI	465
gi 755745075:318-1892	KEKLKMKEREEAWVKIENLAKANPQHAVCGEANT-----VSLPVAMGTDGPLS	465
gi 555290051:121-1695	KEKLKMKEREEAWVKIENLAKANPQYAVYSQASA-----VSIPVAMETDGPQF	465
gi 300798097:82-1656	KEKLKMKEREEAWVKIENLAKANPQYAVYSQASA-----MSIPVAMETDGPQF	465
gi 240849335:141-1715	KEKLKMKEREEAWVKIENLAKANPQYTVYSQAST-----MSIPVAMETDGPLF	465
gi 803180317:2708-4297	KEKLKMKEREEAWVKIENLAKANPQYAVYSQAST-----ISIPVAMETDGPLF	465
gi 134085945:20-1594	KEKLKMKEREEAWVKIENLAKANPQYAVYSQAST-----ISIPVAMETDGPLF	465
gi 688603875:111-1688	KEKAKWKEREEAWIKIENLAKSNPQFLMYIDANS-----LCSPMDMETDGPML	465
gi 657585651:111-1688	KEKAKWKEREEAWLK IENLAKSNPQFLTYVDSIG-----SGSPMDMETDGPLL	465
gi 657585641:75-1811	KEKAKWKEREEAWLK IENLAKSNPQFLTYVDSIG-----SGSPMDMETDGPLL	518
gi 50726891:63-1868	KEYKVKKEREEAMWHKIEALAKQN PQSTKVQLRPLAQEEYMMYNEGGMPIYSMETETPTV	540
gi 426251100:1-1800	KGRFRMKEREEAMWQKIEELARLN PQYPMFRAPP-----LPPVYSMETETPTA	538
gi 14669809:89-1873	KGRFRMKEREEAMWQKIEELARLN PQYPMFRAPP-----LPPVYSMETETPTA	533
gi 672023745:791-2578	KGRFRMKEREEAMWQKIEELARLN PQYPMFRAPP-----LPPVYSMETETPTA	534
gb L76702.1 HUMB56DA:188-1996	KGRFRMKEREEAMWQKIEELARLN PQYPMFRAPP-----LPPVYSMETETPTA	541
gi 329744635:107-1909	KGRFRMKEREEAMWQKIEELARLN PQYPMFRAPP-----LPPVYSMETETPTA	539
gi 755728309:140-1948	KGRFRMKEREEAMWQKIEELARLN PQYPMFRAPP-----LPPVYSMETETPTA	541
gi 641758569:96-1892	KGRFKLREREEAMWHKVEELARQN PQYPMYYAPP-----LPPVYCMETETPTA	537
gi 557295947:96-1958	KGRFRMKERVEMWQKIEELARLN PQYPMYYAPP-----LPPVYCMETETPTA	559
gi 688564053:1400-2911	KELKKERERVELWRNLEDLRERR LQSLTEASRNQKNLQERENTAKSQSDT----SAANTT	503
gi 657563479:1-1563	KELKKRERERAE LWRGLEEHQERRMQMLTEAARNQRNLQERGERGDPLTPS----SPQTAH	502
gi 115497699:359-1849	QEQQKARERQELWQGLEELRLRRLQGTQGAK EAPLQRLTPQVTGGGQS*-----	496
gi 803191297:577-2067	QEQQKARERQELWQGLEELRLRRLQGTQGAK EAPLQRLTPQVTGGGQS*-----	496
gi 60593006:48-1541	QEQQKAQERQELWQGLEELRLRRLQGTQGAK EAPVRPTPQVAASGGQS*-----	497
gi 142364854:598-2091	QEQQKAQERQELWQGLEELRLRRLQGTQGAK EAPVRPTPQVAASGGQS*-----	497
gb L42374.1 HUMPP2ABA:326-1819	QEQQKAQERQELWQGLEELRLRRLQGTQGAK EAPLQRLTPQVAASGGQS*-----	497
gi 587003404:628-2121	QEQQKARERQELWQGLEELRLRRLQGTQGAK EAPLQRLTPQVATSGGQS*-----	497
gi 641793336:1879-3372	QELKKEKERQELWKQLDELQLKKLQGLEEAQMNRLNLQHSLGLQSGNKS*-----	497
gi 557320144:379-1860	QELKKEKERQELWRQLDELRLRRLRGL EEAQMNRLNLQHGHS PKT*-----	493
gi 51491868:454-1860	RERKKDKEREDLWRKLEDLELRRIQNSDGIPT*-----	468
gi 657554348:108-1517	REKKKKEKEREELWKKLEDLELKRGLRSDGIPT*-----	469
gi 641761822:526-1914	-EKKKKEKEREELWKKLEDLELKRGLRRDGIPT*-----	462
gi 557266651:182-1570	-EKKKKEKEREELWKKLEDLELKRGLRRDGIPT*-----	462

gi 586990135:195-1598	REKKKEKEREELWKKLEDLELKRGLRRDGIPT*-----	467
gi 532164714:591-1994	REKKKEKEREELWKKLEDLELKRGLRRDGIPT*-----	467
gi 134085748:529-1932	REKKKEKEREELWKKLEDLELKRGLRRDGIPT*-----	467
gi 426233507:51-1454	REKKKEKEREELWKKLEDLELKRGLRRDGIPT*-----	467
gi 55741699:574-1977	REKKKEKEREELWKKLEDLELKRGLRRDGIPT*-----	467
gi 672056393:586-1989	REKKKEKEREELWKKLEDLELKRGLRRDGIPT*-----	467
gi 528511094:406-1860	REKKKEQEREELWRRRLDELRMKEVLMIQNNRH-DIHS�TTTTSIKNEH----DI*---	484
gi 657570088:928-2469	REKKKEQERDELWKKLEELRLSNATLVQNNSH-GLPSVQNNNNNNNNNS-----NND SVN	485
gi 557292702:1-1446	REKKKELEREELWRKLEELKLLKKVLAEQNSTHNVLNAQNNTSAK*-----	481
gi 641796061:534-1967	REKKKELEREELWRKLEELKLLKKTVEKQNSTHNVLNAHNNTSAK*-----	477
gi 118130061:626-2086	REKKKELEREELWKKLEELQLKKALEKQNNNA-YNMHSIRSSTSAK*-----	486
gi 157823929:178-1638	REKKKELEREELWKKLEELKLLKKALEKQNNNA-YNMHSILSNTSAQ*-----	486
gi 126165211:499-1968	REKKKELEREELWKKLEELKLLKKALEKQNSA-YNMHSILSNTNDG*-----	489
gi 426240097:195-1664	REKKKELEREELWKKLEELKLLKKALEKQNSA-YNMHSILSNTNDG*-----	489
gb L42373.1 HUMPP2A:572-2032	REKKKELEREELWKKLEELKLLKKALEKQNSA-YNMHSILSNTSAE*-----	486
gi 755806859:84-1547	REKKKELEREELWKKLEELKLLKKALEKQNSA-YNMHSILSNTSDE*-----	487
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gi 530584065:87-1661	EDLQMLKKTVKEEACQAQRDQKKDRPLMRRKSELPQDIYTMKALESHCRADELISH-DGH	524
gi 557265256:74-1648	EDLQMLKKTVKEEACQAQKDQKKDRPLVRRKSELPQDIYTMKALESHCRADELISH-DGH	524
gi 755745075:318-1892	EDVQTLRET VSGQARQAQKDLKKDRPLVRRKSELPQDLHTKNALEAHCRADQLVSQ-DGR	524
gi 555290051:121-1695	EDVQMLKKT VSD EARQAQKELKKDRPLVRRKSELPQDPHTEKALEAHCRASELLSQ-DGR	524
gi 300798097:82-1656	EDVQMLKKT VSD ETRQAQKDLKKDRPLVRRKSELPQDPHTEKALEAHCRASELLSQ-DGR	524
gi 240849335:141-1715	EDVQMLRKT V KDEAHQAQKDPKKDRPLARRKSELPQDPHTKKALEAHCRADELASQ-DGR	524
gi 803180317:2708-4297	EDVQMLRKT VNEEARQAQKDPKKERPLVRRKSDLPQDLHAKSALEAHGRAEEPAPQ-DGR	524
gi 134085945:20-1594	EDVQMLRKT VNEEARQAQKDPKKERPLARRKSELPQDLHTKSALEAHGRAEEPAPQ-DGR	524
gi 688603875:111-1688	EDVLMKKT VEE EATPLHREQRKERPLMRRKSELPQDTSTVKALETHHRAEDMIGTQDGH	525
gi 657585651:111-1688	DDVNL LKKTVAEEATQIQKDQRRERPLMRRKSELPKDISTVTALELHRRAEEMLTTHDGH	525
gi 657585641:75-1811	DDVNL LKKTVAEEATQIQKDQRRERPLMRRKSELPKDISTVTALELHRRAEEMLTTHDGH	578
gi 50726891:63-1868	EDIQL LKKTVESEASQGMKEIKKDKVLMRRKSELPQDVYTIKALEAHKRAEEYLTANQEA	600
gi 426251100:1-1800	EDIQL LKRTVETEAVQMLKDIIKKEKVL LRRKSELPQDVYTIKALEAHKRAEEFLTASQEA	598
gi 14669809:89-1873	EDIQL LKRTVETEAVQMLKDIIKKDKVL LRRKSELPQDVYTIKALEAHKRAEEFLTASQEA	593
gi 672023745:791-2578	EDIQL LKRTVETEAVQMLKDIIKKDKVL LRRKSELPQDVYTIKALEAHKRAEEFLTASQEA	594
gb L76702.1 HUMB56DA:188-1996	EDIQL LKRTVETEAVQMLKDIIKKEKVL LRRKSELPQDVYTIKALEAHKRAEEFLTASQEA	601
gi 329744635:107-1909	EDIQL LKRTVETEAVQMLKDIIKKEKVL LRRKSELPQDVYTIKALEAHKRAEEFLTASQEA	599
gi 755728309:140-1948	EDIQL LKRTVETEAVQMLKDIIKKEKVL LRRKSELPQDVYTIKALEAHKRAEEFLTASQEA	601
gi 641758569:96-1892	EDIQL LKKT VETEAVQMLKDIIKKEKVL LRRKSELPQDVYTIKALEAHKRAEEFLTSSQEA	597
gi 557295947:96-1958	EDIQL LKKT METEAVQMLKDIIKKEKVL LRRKSELPQDVYTIKALEAHKRAEEFLTSSQEA	619
gi 688564053:1400-2911	*-----	503
gi 657563479:1-1563	SDQPEPKPSGASSGES-----AT*-----	520
gi 115497699:359-1849	-----	496
gi 803191297:577-2067	-----	496
gi 60593006:48-1541	-----	497
gi 142364854:598-2091	-----	497
gb L42374.1 HUMPP2ABA:326-1819	-----	497
gi 587003404:628-2121	-----	497

gi 641793336:1879-3372	-----	497
gi 557320144:379-1860	-----	493
gi 51491868:454-1860	-----	468
gi 657554348:108-1517	-----	469
gi 641761822:526-1914	-----	462
gi 557266651:182-1570	-----	462
gi 586990135:195-1598	-----	467
gi 532164714:591-1994	-----	467
gi 134085748:529-1932	-----	467
gi 426233507:51-1454	-----	467
gi 55741699:574-1977	-----	467
gi 672056393:586-1989	-----	467
gi 528511094:406-1860	-----	484
gi 657570088:928-2469	ED---KSADGAAETVD-----GKDTME-----A-----SE	507
gi 557292702:1-1446	-----	481
gi 641796061:534-1967	-----	477
gi 118130061:626-2086	-----	486
gi 157823929:178-1638	-----	486
gi 126165211:499-1968	-----	489
gi 426240097:195-1664	-----	489
gb L42373.1 HUMPP2A:572-2032	-----	486
gi 755806859:84-1547	-----	487

gi 530584065:87-1661	*-----	524
gi 557265256:74-1648	*-----	524
gi 755745075:318-1892	*-----	524
gi 555290051:121-1695	*-----	524
gi 300798097:82-1656	*-----	524
gi 240849335:141-1715	*-----	524
gi 803180317:2708-4297	PRACP*-	529
gi 134085945:20-1594	*-----	524
gi 688603875:111-1688	*-----	525
gi 657585651:111-1688	*-----	525
gi 657585641:75-1811	*-----	578
gi 50726891:63-1868	L*-----	601
gi 426251100:1-1800	L*-----	599
gi 14669809:89-1873	L*-----	594
gi 672023745:791-2578	L*-----	595
gb L76702.1 HUMB56DA:188-1996	L*-----	602
gi 329744635:107-1909	L*-----	600
gi 755728309:140-1948	L*-----	602
gi 641758569:96-1892	L*-----	598
gi 557295947:96-1958	L*-----	620
gi 688564053:1400-2911	-----	503
gi 657563479:1-1563	-----	520

gi 115497699:359-1849	-----	496
gi 803191297:577-2067	-----	496
gi 60593006:48-1541	-----	497
gi 142364854:598-2091	-----	497
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gi 587003404:628-2121	-----	497
gi 641793336:1879-3372	-----	497
gi 557320144:379-1860	-----	493
gi 51491868:454-1860	-----	468
gi 657554348:108-1517	-----	469
gi 641761822:526-1914	-----	462
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gi 586990135:195-1598	-----	467
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gi 426233507:51-1454	-----	467
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gi 672056393:586-1989	-----	467
gi 528511094:406-1860	-----	484
gi 657570088:928-2469	STPCKA*	513
gi 557292702:1-1446	-----	481
gi 641796061:534-1967	-----	477
gi 118130061:626-2086	-----	486
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gi 126165211:499-1968	-----	489
gi 426240097:195-1664	-----	489
gb L42373.1 HUMPP2A:572-2032	-----	486
gi 755806859:84-1547	-----	487