




Acr00054	type I-D	.....MNYKELKDMLSPIFENSELWEIDLVSFELEITEEFKELIQNAILLQQVINN.....	53
Acr00053	type I-D	.....MKKDLYMRKIRYKRSDRKMKYKTLKDMLSPIFENSELWEVDLIFSPEVELDEQEFKELIQNAILLQQVINN.....	71
Acr00004	type I-D	.....MKMKMFETLKNMINPVFENSEIWEVDLIFSEEIELTEDEYKDLTKNADPLQEIINDTT.....G	59
Acr00055	type I-D	.....MNYKELEKMLDVFIFENSEIKEIDLFFDPEVEISKQEFEDLVKNADPLQKVVGD.....	53
Acr00003	type I-D	.....MNYKELEKMLDVFIFENSEIKEIDLFFDPEVEISKQEFEDLVKNADPLQKVVGD.....	53
Acr00287	type II-C	.....SMSKNNIFNKYPT.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VNGELGGIGEPRRLAYDS.....R	72
Acr00231	type II-C	.....MSKNNIFNKYPT.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VNGELGGIGEPRRLAYDS.....R	71
Acr00288	type II-C	.....MASKNNIFNKYPT.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VNGELGGIGEPRRLAYDS.....R	72
Acr00233	type II-C	.....MSKNNIFNKYPT.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGGIPAKP...VNGELGGIGEPRRLAYDS.....R	71
Acr00232	type II-C	MAAFLKGFKMSKNNIFNKYPT.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGGIPAKP...VNGELGGIGEPRRLAYDS.....R	80
Acr00234	type II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VDGELGGIGEPLRLAYDS.....R	71
Acr00239	type II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGGIPAKP...IDGELGGIGEPRRLAYDS.....R	71
Acr00241	type II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTCYPRFLARKSFDDNFTGEIPAKP...IDGELGGIGEPLRLAYDS.....R	71
Acr00240	type II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VDGELGGIGEPLRLAYDS.....R	71
Acr00237	type II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VDGELGGIGEPLRLAYDS.....R	71
Acr00238	type II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VDGELGGIGEPLRLAYDS.....R	71
Acr00242	type II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEIPAKP...IDGELGGIGEPLRLAYDS.....R	71
Acr00236	type II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VNGELGGIGEPRRLAYDS.....R	71
Acr00235	type II-C	.....MSKNNIFKKYPT.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VNGELGGIGEPLRLAYDS.....R	71
Acr00255	type II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRSPRFTCRVVELEDMPAEPEDDG...DIDGRIVHFENPKRMFYIT.....D	83
Acr00257	type II-C	.....MDEIDELSDLPTPRFIWGFAIDVTPSGEVSHDEFEYLTHTRSPRFTCRVVELEDMPAEPEDDG...DIDGRIVHFENPKRMFYIT.....D	83
Acr00258	type II-C	.....MDEIDELSDLPTPRFIWGFAIDVTPSGEVSHDEFEYLTHTRAPRFACRVVELEDMPAEPEDDG...DIDGRIVHFENPKRMFYIT.....D	83
Acr00244	type II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEDDG...DIDGRIVHFDNPKRMFYIT.....D	83
Acr00243	type II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEDDG...DIDGRIVHFDNPKRMFYIT.....D	83
Acr00247	type II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEDDG...DIDGRIVHFDNPKRMFYIT.....D	83
Acr00245	type II-C	.....MDEIDELSDLPTPRFIWGFAIAVTQSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEDDG...DIDGRIVHFDNPKRMFYIT.....D	83
Acr00246	type II-C	.....MDEIDELSDLPTPRFIWGFAITVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEDDG...DIDGRIVHFDNPKRMFYIT.....D	83
Acr00250	type II-C	.....MDEIDELSDLPTPRFIWGFAIAVSPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEDDG...DIDGRIVHFDNPKRMFYIT.....D	83
Acr00251	type II-C	.....MDEIDELSDLPTPRFIWGFAIAVSPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEDDG...DIDGRIVHFDNPKRMFYIT.....D	83
Acr00249	type II-C	.....MDEIDELSDLPTPRFIWGFAIAVSPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEDDG...DIDGRIVHFDNPKRMFYIT.....D	83
Acr00253	type II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRTPRFTCRVVELEDMPAEPEDDG...DIDGRIVHFDNPKRMFYIT.....D	83
Acr00256	type II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRTPRFTCRVVELEDMPAEPEDDG...DIDGRIVHFDNPKRMFYIT.....D	83
Acr00262	type II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRTPRFTCRVVELEDMPAEPEDDG...DIDGRIVHFDNPKRMFYIT.....D	83
Acr00254	type II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRVPRFTCRVVELEDMPAEPEDDG...DIDGRIVHFDNPKRMFYIT.....D	83
Acr00252	type II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEDDG...DIDGRIVHFDNPKRMFYIT.....D	83
Acr00279	type II-C	.....MDEIEDLSLPMMPFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAEESEDA...IDGRIVHDDDPSRMFYIT.....D	82
Acr00282	type II-C	.....MDEIEDLSLPMMPFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAEESEDA...IDGRIVHDDDPSRMFYIT.....D	82
Acr00280	type II-C	.....MDEIEDLSLPMMPFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAEESEDA...IDGRIVHDDDPSRMFYIT.....D	82
Acr00278	type II-C	.....MDEIEDLSLPMMPFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAEESEDA...IDGRIVHDDDPSRMFYIT.....D	82
Acr00281	type II-C	.....MDEIEDLSLPMMPFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAEESEDA...IDGRIVHDDDPSRMFYIT.....D	82
Acr00283	type II-C	.....MDEIEDLSLPMMPFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAEESEDA...IDGRIVHDDDPSRMFYIT.....D	82
Acr00276	type II-C	.....MDEIEDLSLPMMPFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAEESEDA...IDGRIVHDDDPSRMFYIT.....D	82
Acr00271	type II-C	.....MDEIEDLSLPMMPFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAEESEDA...IDGRIVHDDDPSRMFYIT.....D	82
Acr00270	type II-C	.....MDEIEDLSLPMMPFIWGFAVIAGKSGEVHDEFEYLTHTRSPRFTCRVVELEDMPAEESEDA...IDGRIVHDDDPSRMFYIT.....D	82
Acr00272	type II-C	.....MDEIEDLSLPMMPFIWGFAVIAGKSGEVHDEFEYLTHTRSPRFTCRVVELEDMPAEESEDA...IDGRIVHDDDPSRMFYIT.....D	82
Acr00284	type II-C	.....MDEIEDLSLPMMPFIWGFAVAAGRSGEVLHDEFEYLTHTRSPRFTCRVVELEDMPVPTNDEGG...IDGRIVHPDDPRRMFYIT.....D	82
Acr00285	type II-C	.....MDEIEGLSDLPMMPFIWGFAVAAGRDGDVLHDEFEYLTHTRTPRFTCRVVELEDVPSDNEEGD...IDGRIVHPDDPRRMFYIT.....D	82
Acr00263	type II-C	.....MDEIEDLSLPMMPFIWGFAVVAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDVPAADNGEDD...IDGRIVHDDPEPRLFYIT.....D	82
Acr00274	type II-C	.....MDEIDDLSDLPMMPFIWGFAVIANKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPADSEDSG...IDGRIVHDDDPDRMFYIT.....D	82
Acr00275	type II-C	.....MDDMDEIDDLSDLPMMPFIWGFAVIANKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPADSEDSG...IDGRIVHDDDPDRMFYIT.....D	85
Acr00269	type II-C	.....MDDMDEIDDLSDLPMMPFIWGFAVIANKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPADSEDSG...IDGRIVHDDPEPRLFYIT.....D	85
Acr00265	type II-C	.....MDDMDEIDDLSDLPIPQFIWGFAVIANKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPADSEDSG...IDGRIVHDDPEPRLFYIT.....D	85
Acr00268	type II-C	.....MDEIDDLSDLPMMPFIWGFAVVANKGGEIMHDEFEYLTHTRSPRFTCRVVELEDMPADSEESG...IDGRVVHYDEPDRLFYIT.....D	82
Acr00266	type II-C	.....MDELDELDDLSDLPMMPFIWGFAVVASKGGEVTHDEFEYLTHTRSPRFTCRVVELEDMPADSEESG...IDGRVVHYDEPDRLFYIT.....D	85
Acr00264	type II-C	.....MDDMDEIDDLSDLPMMPFIWGFAITASKGGEVSHDEFEYLTHTRNPRFSCRVVELEDVPAADSEESG...IDGRLVHYDEPDRLFYIT.....D	85
Acr00277	type II-C	.....MDEIDDLSDLPMMPFIWGFAIATGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPTESDSD...IDGRIVHYDDPARLFYIT.....D	82
Acr00273	type II-C	.....MDEIDDLSDLPMMPFIWGFAIATGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPTESDSEG...IDGRIVHYDDPARLFYIT.....D	82
Acr00267	type II-CMDEIDDLSDLPMMPFIWGFAIFTPKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPADSEENG...IDGRIVHYDEPGRLFYIT.....D	82

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Acr00054	type I-D	.KIYSDFYEWWEFE.....NQY.....LKIQVKYKDKTEKIYLRELYFWREVKK....	96
Acr00053	type I-D	.KIYSDFYEWWEFE.....NQY.....LELEIDYYRYDDKIFVLELHFWREEKK....	114
Acr00004	type I-D	VNIYTDITYEWWEFN.....NQY.....LELEIDYYRQNDKIYLLLELHFWRKVKK....	103
Acr00055	type I-D	.NYITETFEWWEFE.....NQY.....LEFELDYYVKDEKIFVLEMHFWRKIRKLE..	98
Acr00003	type I-D	.NYITETFEWWEFE.....NQY.....LEFELDYYVKDEKIFVLEMHFWRKIRK....	96
Acr00287	type II-C	LGLWLSDFIMLDNN.....KPKNMEDWLGQLKAAACDRIAADDMLNEDAADLEGWDD..	124
Acr00231	type II-C	LGLWLSDFIMLDNN.....KPKNMEDWLGQLKAAACDRIAADDMLNEDAADLEGWDD..	123
Acr00288	type II-C	LGLWLSDFIMLDNN.....KPKNMEDWLGQLKAAACDRIAADDMLNEDAADLEGWDD..	124
Acr00233	type II-C	LGLWLSDFIMLDNN.....KPKNMEDWLGQLKAAACDRIAADDMLNEDAAALEGWDD..	123
Acr00232	type II-C	LGLWLSDFIMLDNN.....KPKNMEDWLGQLKAAACDRIAADDMLNEDAAALEGWDD..	132
Acr00234	type II-C	LGLWLSDFIMLDNN.....KPKNMEDWLGQLKAAACDRIAADDMLNEDAAALEGWDD..	123
Acr00239	type II-C	LGLWLSDFIMLDKN.....KPKNMEDWLGQLKAAACDRIAADDMLNEDAAALEGWDD..	123
Acr00241	type II-C	IGLWLSDFIMLDKN.....KPKNMEDWLGQLKAAACDRIAADDMLNEDAAALEGWDD..	123
Acr00240	type II-C	IGLWLSDFIMLDKN.....KPKNMEDWLGQLKAAACDRIAADDMLNEDAAALEGWDD..	123
Acr00237	type II-C	IGLWLSDFIMLDKN.....KPKNMEDWLGQLKAAACDRIAADDMLNEDAAALEGWDD..	123
Acr00238	type II-C	MGLWLSDFIMLDKN.....KPKNMEDWLGQLKAAACDRIAADDMLNEDAAALEGWDD..	123
Acr00242	type II-C	IGLWLSDFIMLDKN.....KPKNMEDWLGQLKAAACDRIAADDMLNEDAAALEGWDD..	123
Acr00236	type II-C	LGLWLSDFIMLDKN.....KPKNMEDWLGQLKAAACDRIAADDMLNEDAAALEGWDD..	123
Acr00235	type II-C	MGLWLSDFIMLDNN.....KPKNMEDWLGQLKAAACDRIAADDMLNEDAAALEGWDD..	123
Acr00255	type II-C	LGLALMNFTLFDKV.....DNK.....AKLKNACDEAIDWLTRRDFLDSE.EDDEE..	129
Acr00257	type II-C	LGLALMNFTLFDKV.....DNK.....AKLKNACDEAIDWLTRRDFLDSE.EDDEE..	129
Acr00258	type II-C	LGLALMNFTLFDKV.....DNK.....AKLKNACDEAIDWLTRRDFLDSE.EDDEE..	129
Acr00244	type II-C	LGLALMNFTLFDRI.....DSK.....AKLKKACDDAIDWLTRRDFLDSEPEDDEE..	130
Acr00243	type II-C	LGLALMNFTLFDRI.....DSK.....AKLKKACDDAIDWLTRRDFLDSEPEDDEE..	130
Acr00247	type II-C	LGLALMNFTLFDRI.....DSK.....AKLKKACDDAIDWLTRRDFLDSEPEDDEE..	130
Acr00245	type II-C	LGLALMNFTLFDRI.....DSK.....AKLKKACDDAIDWLTRRDFLDSEPEDDEE..	130
Acr00246	type II-C	LGLALMNFTLFDRI.....DSK.....AKLKKACDDAIDWLTRRDFLDSEPEDDEE..	130
Acr00250	type II-C	LGLALMNFTLFDRI.....DSK.....AKLKKACDDAIDWLTRRDFLDSEPEDDEE..	130
Acr00251	type II-C	LGLALMNFTLFDRI.....DSK.....AKLKKACDDAIDWLTRRDFLDSEPEDDEE..	130
Acr00249	type II-C	LGLALMNFTLFDRI.....DSK.....AKLKKACDDAIDWLTRRDFLDSEPEDDEE..	130
Acr00253	type II-C	LGLALMNFTLFDKV.....DNK.....SKLKDACDQAIADWLTRRDFLDSEPEDDEE..	130
Acr00256	type II-C	LGLALMNFTLFDKV.....DNK.....SKLKDACDQAIADWLTRRDFLDSEPEDDEE..	131
Acr00262	type II-C	LGLALMNFTLFDKV.....DNK.....SKLKDACDQAIADWLTRRDFLDSEPEDDEE..	131
Acr00254	type II-C	LGLALMNFTLFDKV.....DNK.....SKLKDACDQAIADWLTRRDFLDSEPEDDEE..	131
Acr00252	type II-C	LGLALMNFTLFDKV.....DSK.....AKLKKACDEAIDWLTRRDFLDSEPEDDEE..	130
Acr00279	type II-C	AGMALVNFQFLDKM.....PDK.....QKFKRICDEAIDWLTRRDFLDSEPEDDEE..	126
Acr00282	type II-C	AGMALVNFQFLDKM.....PDK.....QKFKRICDEAIDWLTRRDFLDSEPEDDEE..	126
Acr00280	type II-C	AGMALVNFQFLDKM.....PDK.....QKFKRICDEAIDWLTRRDFLDSEPEDDEE..	126
Acr00278	type II-C	AGMALVNFQFLDKM.....PDK.....QKFKRICDEAIDWLTRRDFLDSEPEDDEE..	126
Acr00281	type II-C	AGMALVNFQFLDKM.....PDK.....QKFKRICDEAIDWLTRRDFLDSEPEDDEE..	125
Acr00283	type II-C	AGMALVNFQFLDKM.....PDK.....QKFKRICDEAIDWLTRRDFLDSEPEDDEE..	125
Acr00276	type II-C	AGMALVNFQFLDKM.....PDK.....QKFKRICDEAIDWLTRRDFLDSEPEDDEE..	126
Acr00271	type II-C	AGMALVNFQFLDKM.....PDK.....QKFKRICDEAIDWLTRRDFLDSEPEDDEE..	126
Acr00270	type II-C	AGMALVNFQFLDKM.....PDK.....QKFKRICDEAIDWLTRRDFLDSEPEDDEE..	126
Acr00272	type II-C	AGMALVNFQFLDKM.....PDK.....QKFKRICDEAIDWLTRRDFLDSEPEDDEE..	126
Acr00284	type II-C	AGMALVNFQFLDKM.....PER.....QKFKRICDEAIDWLTRRDFLDSEPEDDEE..	130
Acr00285	type II-C	AGMALVNFQFLDKM.....PDR.....QKFKRICDEAIDWLTRRDFLDSEPEDDEE..	130
Acr00263	type II-C	AGMALVNFQFLDKL.....PEK.....AKLKKVCDEAIDWLTRRDFLDSEPEDDEE..	126
Acr00274	type II-C	IGMALVNFQFLDKL.....PDK.....GKLKNCDEAIDWLTRRDFLDSEPEDDEE..	127
Acr00275	type II-C	IGMALVNFQFLDKL.....PDK.....GKLKNCDEAIDWLTRRDFLDSEPEDDEE..	130
Acr00269	type II-C	IGMALVNFQFLDKL.....PDK.....GKLKNCDEAIDWLTRRDFLDSEPEDDEE..	130
Acr00265	type II-C	IGMALVNFQFLDKL.....PDK.....GKLKNCDEAIDWLTRRDFLDSEPEDDEE..	130
Acr00268	type II-C	AGMALVNFQFLDKL.....PDK.....AKLKKVCDEAIDWLTRRDFLDSEPEDDEE..	127
Acr00266	type II-C	AGMALVNFQFLDKL.....PDK.....AKLKKVCDEAIDWLTRRDFLDSEPEDDEE..	130
Acr00264	type II-C	AGMALVNFQFLDKL.....PEK.....SRLLKVCDEAIDWLTRRDFLDSEPEDDEE..	130
Acr00277	type II-C	AGMALVNFQFLDKL.....PDR.....QKFKRICDEAIDWLTRRDFLDSEPEDDEE..	127
Acr00273	type II-C	AGMALVNFQFLDKL.....PDR.....QKFKRICDEAIDWLTRRDFLDSEPEDDEE..	127
Acr00267	type II-C	AGMALVNFQFLDKL.....PDK.....NKLLKVCDEAIDWLTRRDFLDSEPEDDEE..	128

 non conserved
 similar
 $\geq 50\%$ conserved