






Acr00054	type	I-D	.....MNYKELKDMLSPIFENSELWEIDLVSPELEITEEEFKELIQNAILLQQVINN...KIY	56
Acr00053	type	I-D	.....MKKDLYMRKIRY.....KRSDRKMKYKTLKDMLSPIFENSELWEVDLIFSPEVELDEQEFKELIQNAILLQQVINN...KIY	74
Acr00004	type	I-D	.....MKMKMFETLKNMINPVFENSEIWEVDLIFSEEIELTEDEYKDLTKNADPLQEIINDTTGVNIY	63
Acr00287	type	II-C	.....SMSKNNIFNKYPT.....IIHGEARGENDEFVHVHTRYPRFLARKSFDDNFTGEMPAKP...VNDELGGIGEPRRLAYDSRLG.LWL	77
Acr00231	type	II-C	.....MSKNNIFNKYPT.....IIHGEARGENDEFVHVHTRYPRFLARKSFDDNFTGEMPAKP...VNDELGGIGEPRRLAYDSRLG.LWL	76
Acr00288	type	II-C	.....MASKNNIFNKYPT.....IIHGEARGENDEFVHVHTRYPRFLARKSFDDNFTGEMPAKP...VNDELGGIGEPRRLAYDSRLG.LWL	77
Acr00233	type	II-C	.....MSKNNIFNKYPT.....IIHGEARGENDEFVHVHTRYPRFLARKSFDDNFTGEMPAKP...VNDELGGIGEPRRLAYDSRLG.LWL	76
Acr00232	type	II-C	MAAFLKGFKMSKNNIFNKYPT.....IIHGEARGENDEFVHVHTRYPRFLARKSFDDNFTGEMPAKP...VNDELGGIGEPRRLAYDSRLG.LWL	85
Acr00234	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVHVHTRYPRFLARKSFDDNFTGEMPAKP...VDGELGGIGEPLRLAYDSRLG.LWL	76
Acr00239	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVHVHTRYPRFLARKSFDDNFTGEMPAKP...IDGELGGIGEPLRLAYDSRLG.FWL	76
Acr00241	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVHVHTRYPRFLARKSFDDNFTGEMPAKP...IDGELGGIGEPLRLAYDSRIG.LWL	76
Acr00240	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVHVHTRYPRFLARKSFDDNFTGEMPAKP...VDGELGGIGEPLRLAYDSRIG.LWL	76
Acr00237	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVHVHTRYPRFLARKSFDDNFTGEMPAKP...VDGELGGIGEPLRLAYDSRIG.LWL	76
Acr00238	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVHVHTRYPRFLARKSFDDNFTGEMPAKP...VDGELGGIGEPLRLAYDSRMG.LWL	76
Acr00242	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVHVHTRYPRFLARKSFDDNFTGEMPAKP...IDGELGGIGEPLRLAYDSRIG.LWL	76
Acr00236	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVHVHTRYPRFLARKSFDDNFTGEMPAKP...VNDELGGIGEPRRLAYDSRLG.LWL	76
Acr00235	type	II-C	.....MSKNNIFKKYPT.....IIHGEARGENDEFVHVHTRYPRFLARKSFDDNFTGEMPAKP...VNDELGGIGEPLRLAYDSRMG.LWL	76
Acr00243	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00244	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00247	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00245	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTQSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00246	type	II-C	.....MDEIDELSDLPTPRFIWGFAITVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00250	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVSPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00251	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVSPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00249	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVSPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00253	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00256	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00262	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00254	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00252	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00255	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00257	type	II-C	.....MDEIDELSDLPTPRFIWGFAIDVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00258	type	II-C	.....MDEIDELSDLPTPRFIWGFAIDVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG...DIDGRIVHFDNPKRMFYITDLG.LAL	88
Acr00279	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00282	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00280	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00278	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00283	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00281	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00276	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00271	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00270	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00272	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00284	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVAAGRSGEVLHDEFEYLTHTRAPRFTCRVVELEDMPADSEEDG...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00285	type	II-C	.....MDEIEGLSDLPMMPRFIWGFAVAAGRDGEVLHDEFEYLTHTRAPRFTCRVVELEDMPADSEEDG...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00263	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVVAGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPADSEEDG...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00268	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVVAGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPADSEEDG...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00266	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVVAGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPADSEEDG...IDGRIVHDDDPSPRMFYITDAG.MAL	90
Acr00264	type	II-C	.....MDDMDEIEDLSLPMMPRFIWGFAITASKGGEVSHDEFEYLTHTRAPRFTCRVVELEDMPADSEEDG...IDGRIVHDDDPSPRMFYITDAG.MAL	90
Acr00269	type	II-C	.....MDDMDEIEDLSLPMMPRFIWGFAVIANKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPADSEEDG...IDGRIVHDDDPSPRMFYITDAG.MAL	90
Acr00265	type	II-C	.....MDDMDEIEDLSLPMMPRFIWGFAVIANKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPADSEEDG...IDGRIVHDDDPSPRMFYITDAG.MAL	90
Acr00274	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIANKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPADSEEDG...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00275	type	II-C	.....MDDMDEIEDLSLPMMPRFIWGFAVIANKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPADSEEDG...IDGRIVHDDDPSPRMFYITDAG.MAL	90
Acr00273	type	II-C	.....MDEIEDLSLPMMPRFIWGFAIATGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPADSEEDG...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00277	type	II-C	.....MDEIEDLSLPMMPRFIWGFAIATGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPADSEEDG...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00267	type	II-C	.....MDEIEDLSLPMMPRFIWGFAIATGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPADSEEDG...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00248	type	II-C	.....MDEIEDLSLPMMPRFIWGFAIATGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPADSEEDG...IDGRIVHDDDPSPRMFYITDAG.MAL	87
Acr00260	type	II-C	.....MDEIEDLSLPMMPRFIWGFAIATGKGGEVMHDEFEYLTHTRAPRFTCRVVELEDMPADSEEDG...IDGRIVHDDDPSPRMFYITDAG.MAL	87

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VNFLEFDK  
SDTLMKLSVDPK  
FDEENMEWLE  
KIKKAKAEAIAPWLLRREFLDSEEPDD  
ESVSTASALOMYLNDDAPLEEE

Acr00054	type I-D	SDFYEWWE.....	FENQY.....	LKLVKYYKDTEKIYLRELYFWREVKK....	96
Acr00053	type I-D	SDFYEWWE.....	FENQY.....	LELEIDYYRYDDKIFVLELHFWREEKK....	114
Acr00004	type I-D	TDTYEWWE.....	FNNQY.....	LELEIDYYRQNDKIYLLLELHFWRKVKK....	103
Acr00287	type II-C	SDFIMLDN.....	NKPKNMEDWLGQ	LKAAACDRIAADDMLNEDAADLEGWDD..	124
Acr00231	type II-C	SDFIMLDN.....	NKPKNMEDWLGQ	LKAAACDRIAADDMLNEDAADLEGWDD..	123
Acr00288	type II-C	SDFIMLDN.....	NKPKNMEDWLGQ	LKAAACDRIAADDMLNEDAADLEGWDD..	124
Acr00233	type II-C	SDFIMLDN.....	NKPESMEDWLGQ	LKAAACDRIAADDMLNEDAAALEGWDD..	123
Acr00232	type II-C	SDFIMLDN.....	NKPESMEDWLGQ	LKAAACDRIAADDMLNEDAAALEGWDD..	132
Acr00234	type II-C	SDFIMLDN.....	NKPENMEDWLGQ	LKAAACDRIAADDMLNEDAAALEGWDD..	123
Acr00239	type II-C	SDFIMLDK.....	NKPENMEEWLEQ	LKAAACDRIAADDMLNEDAAALEGWDD..	123
Acr00241	type II-C	SDFIMLDK.....	NKPENMEEWLEQ	LKAAACDRIAADDMLNEDAAALEGWDD..	123
Acr00240	type II-C	SDFIMLDK.....	NKPENMEEWLEQ	LKAAACDRIAADDMLNEDAADLGDFDD..	123
Acr00237	type II-C	SDFIMLDK.....	NKPENMEEWLEQ	LKAAACDRIAADDMLNEDAADLGDLDD..	123
Acr00238	type II-C	SDFIMLDK.....	NKPENMEEWLEQ	LKAAACDRIAADDMLNEDAADLGDLDD..	123
Acr00242	type II-C	SDFIMLDK.....	NKPENMEEWLEQ	LKAAACDRIAADDMLNEDAADLGDFDD..	123
Acr00236	type II-C	SDFIMLDK.....	NKPENMEEWLEQ	LKVAACDRIAADDMLNEDAADLEDLDD..	123
Acr00235	type II-C	SDFIMLDN.....	NKPENMEEWLEQ	LKAAACDRIAADDMLNEDAADLEDLDD..	123
Acr00243	type II-C	MNFTLFDR.....	VDSK.....	AKLKKAACDAIADWLMRRDFLDSEPEDDEE..	130
Acr00244	type II-C	MNFTLFDR.....	VDSK.....	AKLKKAACDAIADWLTRRDFLDSEPEDDEE..	130
Acr00247	type II-C	MNFTLFDR.....	VESK.....	AKLKKAACDAIADWLTRRDFLDSEPEDDEE..	130
Acr00245	type II-C	MNFTLFDR.....	VESK.....	AKLKKAACDAIADWLTRRDFLDSEPEDDEE..	130
Acr00246	type II-C	MNFTLFDR.....	VESK.....	AKLKKAACDAIADWLTRRDFLDSEPEDDEE..	130
Acr00250	type II-C	MNFTLFDR.....	IDSK.....	AKLKKAACDAIADWLTRREFLDSEPEDDEE..	130
Acr00251	type II-C	MNFTLFDR.....	IDSK.....	TKLKKAACDAIADWLTRREFLDSEPEDDEE..	130
Acr00249	type II-C	MNFTLFDR.....	IDSK.....	AKLKQAACDAIADWLTRREFLDSEPEDDEG..	130
Acr00253	type II-C	MNFTLFDK.....	VDNK.....	SKLKDAACDAIADWLTRREFLDSEPDDDED..	130
Acr00256	type II-C	MNFTLFDK.....	VDNK.....	AKLKDAACDAIADWLTRREFLDSEPDDDEDD..	131
Acr00262	type II-C	MNFTLFDK.....	VDNK.....	SKLKNAACDAIADWLTRRDFLDSEPDDDEDD..	131
Acr00254	type II-C	MNFTLFDK.....	VDNK.....	TKLKNAACDAIADWLTRREFLDSEPDDDEDD..	131
Acr00252	type II-C	MNFTLFDK.....	VDSK.....	AKLKKAACDAIADWLARREFLDSEPDDDEE..	130
Acr00255	type II-C	MNFTLFDK.....	VDNK.....	AKLKNAACDAIADWLTRRDFLDSE.EDDEE..	129
Acr00257	type II-C	MNFTLFDK.....	VDNK.....	AKLKNAACDAIADWLTRRDFLDSE.EDDEE..	129
Acr00258	type II-C	MNFTLFDK.....	VDNK.....	AKLKKAACDAIADWLTRRDFLDSE.EDDEE..	129
Acr00279	type II-C	VNFQLFDK.....	MPDK.....	QKFKRICDAIANWMLRREFLDDEEED....	126
Acr00282	type II-C	VNFHLFDK.....	MPDK.....	QKFKRICDAIANWMLRREFLDDEEED....	126
Acr00280	type II-C	VNFHLFDK.....	MPDK.....	QKFKRICDAIANWMLRREFLDDEEED....	126
Acr00278	type II-C	VNFQLFDK.....	MPDK.....	QKFKRICDAIANWMLRREFLDDEEED....	126
Acr00283	type II-C	VNFQLFDR.....	MPDK.....	QKFKRICDAIANWMLRREFLDDEEED....	125
Acr00281	type II-C	VNFQLFDK.....	MPDK.....	QKFKRICDAIANWMLRREFLDDEEED....	125
Acr00276	type II-C	VNFQLFDK.....	MPDK.....	QKFKRICDAIANWMLRREFLDDEEED....	126
Acr00271	type II-C	VNFQLFDK.....	MPDK.....	QKLRICDAIANWMLRREFLDDEEED....	126
Acr00270	type II-C	VNFQLFDK.....	MPDK.....	QKFKRICDAIANWMLRREFLDDEEED....	126
Acr00272	type II-C	VNFQLSDK.....	MPDK.....	QKFKRICDAIANWMLRREFLDDEEED....	126
Acr00284	type II-C	VNFAMFDK.....	MPER.....	QKLKQICDAIANWMLRREFLEEGEREDDEE..	130
Acr00285	type II-C	VNFAMFDK.....	MPDR.....	QKLKKICDAIANWMLRREFLEDEEDEDDEE..	130
Acr00263	type II-C	VNFEFFDK.....	LPEK.....	AKLKKVCEAIANWMLRREFLDDEEED....	126
Acr00268	type II-C	VNFQLFDK.....	LPDK.....	AKLKKVCEAIANWMLRREFLDDEEED....	127
Acr00266	type II-C	VNFQLFDK.....	LPDK.....	AKLKKVCEAIANWMLRREFLDDEEED....	130
Acr00264	type II-C	VNFQMFDK.....	LPEK.....	SRLKKVCEAIKNWMLRREFLDDEEED....	130
Acr00269	type II-C	VNFQLFDK.....	LPDK.....	GKLKKVCEAIANWMLRREFLDDEEED....	130
Acr00265	type II-C	VNFQLFDK.....	LPDK.....	GKLKKVCEAIANWMLRREFLDDEEED....	130
Acr00274	type II-C	VNFQLFDK.....	LPDK.....	GKLKNVCEAIANWMLRREFLDDEEED....	127
Acr00275	type II-C	VNFQLFDK.....	LPDK.....	GKLKNVCEAIANWMLRREFLDDEEED....	130
Acr00273	type II-C	VNFELFDK.....	LPDR.....	QKLKKVCEAIRNWMIRRDFLDSEDDDED...	127
Acr00277	type II-C	VNFELFDK.....	LPDR.....	QKLKKVCEAIRNWMIRRDFLDSEDDDED...	127
Acr00267	type II-C	VNFELFDS.....	LPDK.....	NKLKKVCEAITNWLRRDFLESEEEED....	128
Acr00248	type II-C	VNFELFDN.....	LPDK.....	NKLKKVCEAIENWLRRDFLDSEEGEED....	128
Acr00260	type II-C	VNFELFDK.....	VPEK.....	QKLKKICEAIENWLRRDFLDSEEGEED....	128

 non conserved  
 similar  
  $\geq 50\%$  conserved