



Acr00054	type	I-D	.....MNYKELKDMLSPIFENS	ELWEIDLVSPELEITEE	E..FKELIQNA.IILQQVINN.....KIYSD	58	
Acr00053	type	I-D	.....MKKDLYMRKIRYKRSDRKMKYKTLKDMLSPIFENS	ELWEVDLIFSPEVELDEQ	E..FKELIQNA.IILQQVINN.....KIYSD	76	
Acr00004	type	I-D	.....MKKMKFETLKNMINPVFENS	EIWEVDLIFSEEIETED	E..YKDLTKNA.DPLQEIIINDT..TGVNIYTD	65	
Acr00140	type	II-A	MTIKLLDEFLKKHDLTRYQLSKLTGISQNTLKQDQNEKSLNKYTVSILRSLSL	ISGLSVSDVLFLELED	EKNSSDLAGFK.HLLGKYKLSFPAQEFELCYL	99	
Acr00152	type	II-A	MNIKLLDEFLKKHDLTRYQLSKLTGISQNTLNDYNKKELNKYTVSFLRALSMCTGISTFDVFIEL	AEL	EKSYDDLGLAGFK.HLLDKHKLSFPAQEFELCYL	99	
Acr00287	type	II-C	.....MSKNNIFNKYPT	.....IIHGEARGEND	EFVVHTRYPRFLARKSFDDNFT	GEMPAKP...VNDELGGQIGEPRLAYDS	71
Acr00231	type	II-C	.....MSKNNIFNKYPT	.....IIHGEARGEND	EFVVHTRYPRFLARKSFDDNFT	GEMPAKP...VNDELGGQIGEPRLAYDS	70
Acr00288	type	II-C	.....MASKNNIFNKYPT	.....IIHGEARGEND	EFVVHTRYPRFLARKSFDDNFT	GEMPAKP...VNDELGGQIGEPRLAYDS	71
Acr00233	type	II-C	.....MSKNNIFNKYPT	.....IIHGEARGEND	EFVVHTRYPRFLARKSFDDNFT	GGIPAKP...VNDELGGQIGEPRLAYDS	70
Acr00232	type	II-C	.....MAAFLKGFKMSKNNIFNKYPT	.....IIHGEARGEND	EFVVHTRYPRFLARKSFDDNFT	GGIPAKP...VNDELGGQIGEPRLAYDS	79
Acr00234	type	II-C	.....MSKNNIFKKYPP	.....IIHGEARGEND	EFVVHTRYPRFLARKSFDDNFT	GEMPAKP...VDDELGGQIGEPLRLAYDS	70
Acr00239	type	II-C	.....MSKNNIFKKYPP	.....IIHGEARGEND	EFVVHTRYPRFLARKSFDDNFT	GGIPAKP...IDDELGGQIGEPRLAYDS	70
Acr00241	type	II-C	.....MSKNNIFKKYPP	.....IIHGEARGEND	EFVVHTCYPRFLARKSFDDNFT	GEIPAKP...IDDELGGQIGEPLRLAYDS	70
Acr00240	type	II-C	.....MSKNNIFKKYPP	.....IIHGEARGEND	EFVVHTRYPRFLARKSFDDNFT	GEMPAKP...VDDELGGQIGEPLRLAYDS	70
Acr00237	type	II-C	.....MSKNNIFKKYPP	.....IIHGEARGEND	EFVVHTRYPRFLARKSFDDNFT	GEMPAKP...VDDELGGQIGEPLRLAYDS	70
Acr00242	type	II-C	.....MSKNNIFKKYPP	.....IIHGEARGEND	EFVVHTRYPRFLARKSFDDNFT	GEIPAKP...IDDELGGQIGEPLRLAYDS	70
Acr00238	type	II-C	.....MSKNNIFKKYPP	.....IIHGEARGEND	EFVVHTRYPRFLARKSFDENFT	GEMPAKP...VDDELGGQIGEPLRLAYDS	70
Acr00236	type	II-C	.....MSKNNIFKKYPP	.....IIHGEARGEND	EFVVHTRYPRFLARKSFDDNFT	GEMPAKP...VNDELGGQIGEPRLAYDS	70
Acr00235	type	II-C	.....MSKNNIFKKYPT	.....IIHGEARGEND	EFVVHTRYPRFLARKSFDDNFT	GEMPAKP...VNDELGGQIGEPLRLAYDS	70
Acr00251	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVSPS	GEVSHDEF	EYLTHTRAPRFTCRVLEEDMP	AEPEEDG...DIDGRIVHFDNPKRMFYIT	82
Acr00250	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVSPS	GEVSHDEF	EYLTHTRAPRFTCRVLEEDMP	AEPEEDG...DIDGRIVHFDNPKRMFYIT	82
Acr00249	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVSPS	GEVSHDEF	EYLTHTRAPRFTCRVLEEDMP	AEPEEDG...DIDGRIVHFDNPKRMFYIT	82
Acr00244	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPS	GEVSHDEF	EYLTHTRAPRFTCRVLEEDMP	AEPEEDG...DIDGRIVHFDNPKRMFYIT	82
Acr00243	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPS	GEVSHDEF	EYLTHTRAPRFTCRVLEEDMP	AEPEEDG...DIDGRIVHFDNPKRMFYIT	82
Acr00247	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPS	GEVSHDEF	EYLTHTRAPRFTCRVLEEDLP	AEPEEDG...DIDGRIVHFDNPKRMFYIT	82
Acr00245	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTQS	GEVSHDEF	EYLTHTRAPRFTCRVLEEDLP	AEPEEDG...DIDGRIVHFDNPKRMFYIT	82
Acr00246	type	II-C	.....MDEIDELSDLPTPRFIWGFAITVTPS	GEVSHDEF	EYLTHTRAPRFTCRVLEEDLP	AEPEEDG...DIDGRIVHFDNPKRMFYIT	82
Acr00253	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPS	GEVSHDEF	EYLTHTRTPRFTCRVLEEDAP	AEPEDG...DIDGRIVHFDNPKRMFYIT	82
Acr00256	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPS	GEVSHDEF	EYLTHTRTPRFTCRVLEEDAP	AEPEDG...DIDGRIVHFDNPKRMFYIT	82
Acr00262	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPS	GEVSHDEF	EYLTHTRTPRFTCRVLEEDAP	AEPEDG...DIDGRIVHFDNPKRMFYIT	82
Acr00254	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPS	GEVSHDEF	EYLTHTRTPRFTCRVLEEDAP	AEPEDG...DIDGRIVHFDNPKRMFYIT	82
Acr00252	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPS	GEVSHDEF	EYLTHTRAPRFTCRVLEEDAP	AEPEDDA...DIDGRIVHFDNPKRMFYIT	82
Acr00255	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPS	GEVSHDEF	EYLTHTRSPRFTCRVLEEDMP	AEPEDDG...DIDGRIVHFENPKRMFYIT	82
Acr00257	type	II-C	.....MDEIDELSDLPTPRFIWGFAIDVTPS	GEVSHDEF	EYLTHTRSPRFTCRVLEEDMP	AEPEDDG...DIDGRIVHFENPKRMFYIT	82
Acr00258	type	II-C	.....MDEIDELSDLPTPRFIWGFAIDVTPS	GEVSHDEF	EYLTHTRAPRFACRVLEEDMP	AEPEDDG...DIDGRIVHFENPKRMFYIT	82
Acr00283	type	II-C	.....MDEIEDLSLPMPRFIWGFAVIAGKG	GEVMHDEF	EYLTHTRSPRFTCRVLEEDMP	AESEEDA...IDGRIVHEDDPSRMFYIT	81
Acr00281	type	II-C	.....MDEIEDLSLPMPRFIWGFAVIAGKG	GEVMHDEF	EYLTHTRSPRFTCRVLEEDMP	AESEEDA...IDGRIVHEDDPSRMFYIT	81
Acr00276	type	II-C	.....MDEIEDLSLPMPRFIWGFAVIAGKG	GEVMHDEF	EYLTHTRSPRFTCRVLEEDMP	AESEEDA...IDGRIVHEDDPSRMFYIT	81
Acr00279	type	II-C	.....MDEIEDLSLPMPRFIWGFAVIAGKG	GEVMHDEF	EYLTHTRSPRFTCRVLEEDMP	AESEEDA...IDGRIVHDDDPSRMFYIT	81
Acr00282	type	II-C	.....MDEIEDLSLPMPRFIWGFAVIAGKG	GEVMHDEF	EYLTHTRSPRFTCRVLEEDMP	AESEEDA...IDGRIVHDDDPSRMFYIT	81
Acr00280	type	II-C	.....MDEIEDLSLPMPRFIWGFAVIAGKG	GEVMHDEF	EYLTHTRSPRFTCRVLEEDMP	AESEEDA...IDGRIVHDDDPSRMFYIT	81
Acr00278	type	II-C	.....MDEIEDLSLPMPRFIWGFAVIAGKG	GEVMHDEF	EYLTHTRSPRFTCRVLEEDMP	AESEEDA...IDGRIVHDDDPSRMFYIT	81
Acr00271	type	II-C	.....MDEIEDLSLPMPRFIWGFAVIAGKG	GEVMHDEF	EYLTHTRSPRFTCRVLEEDMP	AESEEDA...IDGRIVHDDDPSRMFYIT	81
Acr00270	type	II-C	.....MDEIEDLSLPMPRFIWGFAVIAGKS	GEVMHDEF	EYLTHTRSPRFTCRVLEEDMP	AESEEDA...IDGRIVHDDDPRRMFYIT	81
Acr00272	type	II-C	.....MDEIEDLSLPMPRFIWGFAVIAGKS	GEVMHDEF	EYLTHTRSPRFTCRVLEEDMP	AESEEDA...IDGRIVHDDDPRRMFYIT	81
Acr00285	type	II-C	.....MDEIEGLSDLPMPRFIWGFAVAAGR	GDVLHDEF	EYLTHTRTPRFTCRVLEEDVPSDNEEGD	...IDGRIVHPDDPRRMFYIT	81
Acr00284	type	II-C	.....MDEIEDLSLPMPRFIWGFAVAAGRS	GEVLHDEF	EYLTHTRSPRFTCRVLEEDVPTDNEGG	...IDGRIVHPDDPRRMFYIT	81
Acr00263	type	II-C	.....MDEIEDLSLPMPRFIWGFAVVAGKG	GEVMHDEF	EYLTHTRSPRFTCRVLEEDVP	ADNGEDD...IDGRIVHHDEPRRLFYIT	81
Acr00268	type	II-C	.....MDEIDDLSDLPMPRFIWGFAVVANKG	GEIMHDEF	EYLTHTRSPRFTCRVLEEDMP	ADSEESG...IDGRVVHYDEPDRLFYIT	81
Acr00266	type	II-C	.....MDELDELDDLSDLPMPRFIWGFAVVASKG	GDVTHDEF	EYLTHTRSPRFTCRVLEEDMP	ADSEESG...IDGRVVHYDEPDRLFYIT	84
Acr00264	type	II-C	.....MDDMDEIDDLSDLPMPRFIWGFAITASKG	GEVSHDEF	EYLTHTRSPRFTCRVLEEDVP	ADSEESG...IDGRVVHYDEPDRLFYIT	84
Acr00269	type	II-C	.....MDDMDEIDDLSDLPMPRFIWGFAVIANKG	GDVMHDEF	EYLTHTRSPRFTCRVLEEDMP	ADSEDG...IDGRIVHHDEPDRMFYIT	84
Acr00265	type	II-C	.....MDDMDELDDLSDLPIPQFIWGFAVIANKG	GDVMHDEF	EYLTHTRSPRFTCRVLEEDMP	ADSEDG...IDGRIVHHDEPDRMFYIT	84
Acr00275	type	II-C	.....MDDMDEIDDLSDLPMPRFIWGFAVIANKG	GDVMHDEF	EYLTHTRSPRFTCRVLEEDMP	ADSEDG...IDGRIVHHDDPDRMFYIT	84
Acr00274	type	II-C	.....MDEIDDLSDLPMPRFIWGFAVIANKG	GDVMHDEF	EYLTHTRSPRFTCRVLEEDMP	ADSEDG...IDGRIVHHDDPDRMFYIT	81
Acr00273	type	II-C	.....MDEIDDLSDLPMPRFIWGFAIATGKG	GEVMHDEF	EYLTHTRSPRFTCRVLEEDMP	TESDES...IDGRIVHYDDPARLFYIT	81
Acr00277	type	II-C	.....MDEIDDLSDLPMPRFIWGFAIATGKG	GEVMHDEF	EYLTHTRSPRFTCRVLEEDMP	TESDSD...IDGRIVHYDDPARLFYIT	81
Acr00267	type	II-C	.....MDEIDDLSDLPMPRFIWGFAIFTPKG	GEVMHDEF	EYLTHTRSPRFTCRVLEEDMP	ADSEENG...IDGRIVHYDEPGRLFYIT	81

Acr00054	type	I-D	F.....YEWWEFENQYLKLQ.....VKYYKDT.....EKIYLREL	LYFWREVKK.....	96	
Acr00053	type	I-D	F.....YEWWEFENQYLE.....IDYYRYD.....DKIFVLEL	LHFWREEKK.....	114	
Acr00004	type	I-D	T.....YEWWEFNNQYLE.....IDYYRQN.....DKIYLLEL	LHFWRKVKK.....	103	
Acr00140	type	II-A	I.....KEFESANIEVLFTF.....FNRFNEEHAD	IEKDVKKALNNA	IAVLKAKKEELL....	149
Acr00152	type	II-A	I.....KEFESANIEVLFFT.....FNRFNEEHAD	IEKDVKKALNNA	IAVLKAKKEELL....	149
Acr00287	type	II-C	R.....LGLWLSDFIMLDNN.....KPKNMEDWLGQLKAA	CDRIAADD	MLNEDAADLEGWDD..	124
Acr00231	type	II-C	R.....LGLWLSDFIMLDNN.....KPKNMEDWLGQLKAA	CDRIAADD	MLNEDAADLEGWDD..	123
Acr00288	type	II-C	R.....LGLWLSDFIMLDNN.....KPKNMEDWLGQLKAA	CDRIAADD	MLNEDAADLEGWDD..	124
Acr00233	type	II-C	R.....LGLWLSDFIMLDNN.....KPESMEDWLGQLKAA	CDRIAADD	MLNEDAAALEGWDD..	123
Acr00232	type	II-C	R.....LGLWLSDFIMLDNN.....KPESMEDWLGQLKAA	CDRIAADD	MLNEDAAALEGWDD..	132
Acr00234	type	II-C	R.....LGLWLSDFIMLDNN.....KPENMEDWLGQLKAA	CDRIAADD	MLNEDAAALEGWDD..	123
Acr00239	type	II-C	R.....LGFWLSDFIMLDKN.....KPENMEEWLEQLKAA	CDRIAADD	MLNEDAAALEGWDD..	123
Acr00241	type	II-C	R.....IGLWLSDFIMLDKN.....KPENMEEWLEQLKAA	CDRIAADD	MLNEDAAALEGWDD..	123
Acr00240	type	II-C	R.....IGLWLSDFIMLDKN.....KPENMEEWLEQLKAA	CDRIAADD	MLNEDAADLGDFDD..	123
Acr00237	type	II-C	R.....IGLWLSDFIMLDKN.....KPENMEEWLEQLKAA	CDRIAADD	MLNEDAADLGDLDD..	123
Acr00242	type	II-C	R.....IGLWLSDFIMLDKN.....KPENMEEWLEQLKAA	CDRIAADD	MLNEDAADLGDFDD..	123
Acr00238	type	II-C	R.....MGLWLSDFIMLDKN.....KPENMEEWLEQLKAA	CDRIAADD	MLNEDAADLGDLDD..	123
Acr00236	type	II-C	R.....LGLWLSDFIMLDKN.....KPENMEEWLEQLKVA	CDRIAADD	MLNEDAADLEDLDD..	123
Acr00235	type	II-C	R.....MGLWLSDFIMLDNN.....KPENMEEWLEQLKAA	CDRIAADD	MLNEDAADLEDLDD..	123
Acr00251	type	II-C	D.....LGLALMNFTLFDRI.....DSK.....TKLKKA	CDDAIADWL	TRREFLDSEPEDDEE..	130
Acr00250	type	II-C	D.....LGLALMNFTLFDRI.....DSK.....AKLKKA	CDDAIADWL	TRREFLDSEPEDDEE..	130
Acr00249	type	II-C	D.....LGLALMNFTLFDRI.....DSK.....AKLKKA	CDDAIADWL	TRREFLDSEPEDDEG..	130
Acr00244	type	II-C	D.....LGLALMNFTLFDRI.....DSK.....AKLKKA	CDDAIADWL	TRREFLDSEPEDDEE..	130
Acr00243	type	II-C	D.....LGLALMNFTLFDRI.....DSK.....AKLKKA	CDDAIADWL	MRRDFLDSEPEDDEE..	130
Acr00247	type	II-C	D.....LGLALMNFTLFDRI.....ESK.....AKLKKA	CDDAIADWL	TRREFLDSEPEDDEE..	130
Acr00245	type	II-C	D.....LGLALMNFTLFDRI.....ESK.....AKLKKA	CDDAIADWL	TRREFLDSEPEDDEE..	130
Acr00246	type	II-C	D.....LGLALMNFTLFDRI.....ESK.....AKLKKA	CDDAIADWL	TRREFLDSEPEDDEE..	130
Acr00253	type	II-C	D.....LGLALMNFTLFDKV.....DNK.....SKLKDA	CDQAIADWL	TRREFLDSEPDDDED..	130
Acr00256	type	II-C	D.....LGLALMNFTLFDKV.....DNK.....AKLKDA	CDQAIADWL	TRREFLDSEPDDDEDD	131
Acr00262	type	II-C	D.....LGLALMNFTLFDKV.....DNK.....SKLKNA	CDQAIADWL	TRREFLDSEPDDDEDD	131
Acr00254	type	II-C	D.....LGLALMNFTLFDKV.....DNK.....TKLKNA	CDQAIADWL	TRREFLDSEPDDDEDD	131
Acr00252	type	II-C	D.....LGLALMNFTLFDKV.....DSK.....AKLKKA	CDEAIDWL	ARREFLDSEPDDDEE..	130
Acr00255	type	II-C	D.....LGLALMNFTLFDKV.....DNK.....AKLKNA	CDEAIDWL	TRREFLDSE.EDDEE..	129
Acr00257	type	II-C	D.....LGLALMNFTLFDKV.....DNK.....AKLKNA	CDEAIDWL	TRREFLDSE.EDDEE..	129
Acr00258	type	II-C	D.....LGLALMNFTLFDKV.....DNK.....AKLKKA	CDEAIDWL	TRREFLDSE.EDDEE..	129
Acr00283	type	II-C	D.....AGMALVNFQLFDRM.....PDK.....QKFKRI	CDEAIANW	MLRREFLDEEED....	125
Acr00281	type	II-C	D.....AGMALVNFQLFDRM.....PDK.....QKFKRI	CDEAIANW	MLRREFLDEEED....	125
Acr00276	type	II-C	D.....AGMALVNFQLFDRM.....PDK.....QKFKRI	CDEAIANW	MLRREFLDEEED....	126
Acr00279	type	II-C	D.....AGMALVNFQLFDRM.....PDK.....QKFKRI	CDEAIANW	MLRREFLDEEED....	126
Acr00282	type	II-C	D.....AGMALVNFHLFDRM.....PDK.....QKFKRI	CDEAIANW	MLRREFLDEEED....	126
Acr00280	type	II-C	D.....AGMALVNFHLFDRM.....PDK.....QKFKRI	CDEAIANW	MLRREFLDEEED....	126
Acr00278	type	II-C	D.....AGMALVNFQLFDRM.....PDK.....QKFKRI	CDEAIANW	MLRREFLDEEED....	126
Acr00271	type	II-C	D.....AGMALVNFQLFDRM.....PDK.....QKLKRI	CDEAIANW	MLRREFLDEEEDD....	126
Acr00270	type	II-C	D.....AGMALVNFQLFDRM.....PDK.....QKFKRI	CDEAIANW	MLRREFLDEEED....	126
Acr00272	type	II-C	D.....AGMALVNFQLSDRM.....PDK.....QKFKRI	CDEAIANW	MLRREFLDEEED....	126
Acr00285	type	II-C	D.....AGMALVNFAMFDRM.....PDR.....QKLKKI	CDDAIANW	MLRREFLEDEEDEDDEE	130
Acr00284	type	II-C	D.....AGMALVNFAMFDRM.....PER.....QKLKQI	CDDAIANW	MLRREFLEEGEREDDEE	130
Acr00263	type	II-C	D.....AGMALVNFQFDRM.....PEK.....AKLKKV	CDEAIANW	MLRREFLDEEED....	126
Acr00268	type	II-C	D.....AGMALVNFQLFDRM.....PDK.....AKLKKV	CDEAIANW	MLRREFLDEEEDG...	127
Acr00266	type	II-C	D.....AGMALVNFQLFDRM.....PDK.....AKLKKV	CDEAIANW	MLRREFLDEEEDG...	130
Acr00264	type	II-C	D.....AGMALVNFQMFDRM.....PEK.....SRLKKV	CDEAIKNW	MLRREFLDEEEDG...	130
Acr00269	type	II-C	D.....IGMALVNFQLFDRM.....PDK.....GKLKKV	CDEAI	MLRREFLDEEEDG...	130
Acr00265	type	II-C	D.....IGMALVNFQLFDRM.....PDK.....GKLKKV	CDEAI	MLRREFLDEEEDG...	130
Acr00275	type	II-C	D.....IGMALVNFQLFDRM.....PDK.....GKLKNV	CDEAI	MLRREFLDEEEDG...	130
Acr00274	type	II-C	D.....IGMALVNFQLFDRM.....PDK.....GKLKNV	CDEAI	MLRREFLDEEEDG...	127
Acr00273	type	II-C	D.....AGMALVNFELFDRM.....PDR.....QKLKKV	CDEAIRNW	MIRDFLSEDDDED...	127
Acr00277	type	II-C	D.....AGMALVNFELFDRM.....PDR.....QKLKKV	CDEAIRNW	MIRDFLSEDDDED...	127
Acr00267	type	II-C	D.....AGMALVNFELFDRM.....PDK.....NKLKKV	CDEAITNW	LLRDFLESEDEED...	128

 non conserved  
 similar  
  $\geq 50\%$  conserved