



Acr00054	type	I-D	.....MNYKELKDMLSPIFENSELWEIDLVSFELEITEE.....FKELIQNAILLQQVINN.....K	54
Acr00053	type	I-D	.....MKKDLYMRKIRYKRSDRKMKYKTLKDMLSPIFENSELWEVDLIFSPEVELDEQE.....FKELIQNAILLQQVINN.....K	72
Acr00004	type	I-D	.....MKMKMFETLKNMINPVFENSELWEVDLIFSFEIELTE.....YKDLTKNADPLQEIINDT..TGVN	61
Acr00140	type	II-A	.MTIKLLDEFLKKHDLTRYQLSKLTGISQNTLKDNQKSLNKYTVSILRSLISGLSVSDVLFELDIEKN...SDDLAGFKHLLGKYKLSFPAQEFE	95
Acr00152	type	II-A	.MNIKLLDEFLKKHDLTRYQLSKLTGISQNTLNDYNKKELNKYSVSFLRALSMCTGISTFDVFIELAELEKS...YDDLAGFKHLLDKHKLSPAQEFE	95
Acr00231	type	II-C	.....MSKNNIFNKYPT.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VNDELGGIGEPRLAYDSRGLWL	77
Acr00287	type	II-C	.....SMSKNNIFNKYPT.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VNDELGGIGEPRLAYDSRGLWL	78
Acr00288	type	II-C	.....MASKNNIFNKYPT.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VNDELGGIGEPRLAYDSRGLWL	78
Acr00233	type	II-C	.....MSKNNIFNKYPT.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGGIPAKP...VNDELGGIGEPRLAYDSRGLWL	77
Acr00232	type	II-C	MAAFLKGFKMSKNNIFNKYPT.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGGIPAKP...VNDELGGIGEPRLAYDSRGLWL	86
Acr00234	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VDDELGGIGEPRLAYDSRGLWL	77
Acr00239	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGGIPAKP...IDDELGGIGEPRLAYDSRGLWL	77
Acr00241	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTCYPRFLARKSFDDNFTGEIPAKP...IDDELGGIGEPRLAYDSRGLWL	77
Acr00240	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VDDELGGIGEPRLAYDSRGLWL	77
Acr00237	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VDDELGGIGEPRLAYDSRGLWL	77
Acr00238	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VDDELGGIGEPRLAYDSRGLWL	77
Acr00242	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEIPAKP...IDDELGGIGEPRLAYDSRGLWL	77
Acr00236	type	II-C	.....MSKNNIFKKYPP.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VNDELGGIGEPRLAYDSRGLWL	77
Acr00235	type	II-C	.....MSKNNIFKKYPT.....IIHGEARGENDEFVVHTRYPRFLARKSFDDNFTGEMPAKP...VNDELGGIGEPRLAYDSRGLWL	77
Acr00253	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRTPRFTCRVVELEDAPAEPEDEG..DIDGRIVHFDNPKRMFYITDLGLALM	89
Acr00256	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRTPRFTCRVVELEDAPAEPEDEG..DIDGRIVHFDNPKRMFYITDLGLALM	89
Acr00262	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRTPRFTCRVVELEDAPAEPEDEG..DIDGRIVHFDNPKRMFYITDLGLALM	89
Acr00254	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRVPRFTCRVVELEDAPAEPEDEG..DIDGRIVHFDNPKRMFYITDLGLALM	89
Acr00252	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDAPAEPEDEG..DIDGRIVHFDNPKRMFYITDLGLALM	89
Acr00244	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG..DIDGRIVHFDNPKRMFYITDLGLALM	89
Acr00243	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG..DIDGRIVHFDNPKRMFYITDLGLALM	89
Acr00247	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDLPAEPEEDG..DIDGRIVHFDNPKRMFYITDLGLALM	89
Acr00245	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTQSGEVSHDEFEYLTHTRAPRFTCRVVELEDLPAEPEEDG..DIDGRIVHFDNPKRMFYITDLGLALM	89
Acr00246	type	II-C	.....MDEIDELSDLPTPRFIWGFAITVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDLPAEPEEDG..DIDGRIVHFDNPKRMFYITDLGLALM	89
Acr00250	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVSPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG..DIDGRIVHFDNPKRMFYITDLGLALM	89
Acr00251	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVSPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG..DIDGRIVHFDNPKRMFYITDLGLALM	89
Acr00249	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVSPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG..DIDGRIVHFDNPKRMFYITDLGLALM	89
Acr00255	type	II-C	.....MDEIDELSDLPTPRFIWGFAIAVTPSGEVSHDEFEYLTHTRSPRFTCRVVELEDMPAEPEEDG..DIDGRIVHFENPKRMFYITDLGLALM	89
Acr00257	type	II-C	.....MDEIDELSDLPTPRFIWGFAIDVTPSGEVSHDEFEYLTHTRSPRFTCRVVELEDMPAEPEEDG..DIDGRIVHFENPKRMFYITDLGLALM	89
Acr00258	type	II-C	.....MDEIDELSDLPTPRFIWGFAIDVTPSGEVSHDEFEYLTHTRAPRFTCRVVELEDMPAEPEEDG..DIDGRIVHFENPKRMFYITDLGLALM	89
Acr00279	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDP SRMFYITDAGMALV	88
Acr00282	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDP SRMFYITDAGMALV	88
Acr00280	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDP SRMFYITDAGMALV	88
Acr00278	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDP SRMFYITDAGMALV	88
Acr00281	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDP SRMFYITDAGMALV	88
Acr00283	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDP SRMFYITDAGMALV	88
Acr00276	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDP SRMFYITDAGMALV	88
Acr00271	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDP SRMFYITDAGMALV	88
Acr00270	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKSGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDP SRMFYITDAGMALV	88
Acr00272	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVIAGKSGEVMHDEFEYLTHTRSPRFTCRVVELEDMPAESEEDA...IDGRIVHDDDP SRMFYITDAGMALV	88
Acr00284	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVAAGRSGEVLHDEFEYLTHTRSPRFTCRVVELEDVPTDNDEGG...IDGRIVHPDDPRRMFYITDAGMALV	88
Acr00285	type	II-C	.....MDEIEGLSDLPMMPRFIWGFAVAAGRDGDVLHDEFEYLTHTRTPRFTCRVVELEDVPSDNEEGD...IDGRIVHPDDPRRMFYITDAGMALV	88
Acr00263	type	II-C	.....MDEIEDLSLPMMPRFIWGFAVVAGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDVPAADNGEDD...IDGRIVHHDEPRRLFYITDAGMALV	88
Acr00269	type	II-C	.....MDDMDEIDDLSDLPMMPRFIWGFAVIANKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPADSEDSG...IDGRIVHHDEPRRMFYITDAGMALV	91
Acr00265	type	II-C	.....MDDMDELDDLSDLPIPQFIWGFAVIANKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPADSEDSG...IDGRIVHHDEPRRMFYITDAGMALV	91
Acr00275	type	II-C	.....MDDMDEIDDLSDLPMMPRFIWGFAVIANKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPADSEDSG...IDGRIVHHDEPRRMFYITDAGMALV	91
Acr00274	type	II-C	.....MDEIDDLSDLPMMPRFIWGFAVIANKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPADSEDSG...IDGRIVHHDDPRRMFYITDAGMALV	88
Acr00268	type	II-C	.....MDEIDDLSDLPMMPRFIWGFAVVANKGGEIMHDEFEYLTHTRSPRFTCRVVELEDMPADSEESG...IDGRVVHYDEPDRLFYITDAGMALV	88
Acr00266	type	II-C	.....MDELDELDDLSDLPMMPRFIWGFAVVASKGGEVTHDEFEYLTHTRSPRFTCRVVELEDMPADSEESG...IDGRVVHYDEPDRLFYITDAGMALV	91
Acr00264	type	II-C	.....MDDMDEIDDLSDLPMMPRFIWGFAITASKGGEVSHDEFEYLTHTRNPRFSCRVVELEDVPAADSEESG...IDGRLVHYDEPDRLFYITDAGMALV	91
Acr00273	type	II-C	.....MDEIDDLSDLPMMPRFIWGFAIATGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPTEDESDESG...IDGRIVHYDDPARLFYITDAGMALV	88
Acr00277	type	II-C	.....MDEIDDLSDLPMMPRFIWGFAIATGKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPTESDSD...IDGRIVHYDDPARLFYITDAGMALV	88
Acr00267	type	II-C	.....MDEIDDLSDLPMMPRFIWGFAIFTPKGGEVMHDEFEYLTHTRSPRFTCRVVELEDMPADSEENG...IDGRIVHYDEPGRLFYITDAGMALV	88

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Acr00054	type	I-D	IYSDFYEWWEFENQYLKLVKYYKDT.....EKIYLRRELYFWREVKK.....	96
Acr00053	type	I-D	IYSDFYEWWEFENQYLELEIDYYRYD.....DKIFVLELHFWRREEKK.....	114
Acr00004	type	I-D	IYTDITYEWWEFENNQYLELEIDYYRQN.....DKIYLLLELHFWRKVKK.....	103
Acr00140	type	II-A	LYCLIKEFESANIEVLTFNFRFENEHADI EKDVKKALNNAIAVLKAKKEELL.....	149
Acr00152	type	II-A	LYCLIKEFESANIEVLPTFNRFEENEHADI EKDVKKALNNAIAVLKAKKEELL.....	149
Acr00231	type	II-C	DFIMLDNNKPKNMEDWLGLKAAACDRIAA.....DDLMLNEDAADLEGWDD.....	123
Acr00287	type	II-C	DFIMLDNNKPKNMEDWLGLKAAACDRIAA.....DDLMLNEDAADLEGWDD.....	124
Acr00288	type	II-C	DFIMLDNNKPKNMEDWLGLKAAACDRIAA.....DDLMLNEDAADLEGWDD.....	124
Acr00233	type	II-C	DFIMLDNNKPESMEDWLGLKAAACDRIAA.....DDLMLNEDAAALEGWDD.....	123
Acr00232	type	II-C	DFIMLDNNKPESMEDWLGLKAAACDRIAA.....DDLMLNEDAAALEGWDD.....	132
Acr00234	type	II-C	DFIMLDNNKPNMEDWLGLKAAACDRIAA.....DDLMLNEDAAALEGWDD.....	123
Acr00239	type	II-C	DFIMLDKKNKPNMEEWLEQLKAAACDRIAA.....DDLMLNEDAAALEGWDD.....	123
Acr00241	type	II-C	DFIMLDKKNKPNMEEWLEQLKAAACDRIAA.....DDLMLNEDAAALEGWDD.....	123
Acr00240	type	II-C	DFIMLDKKNKPNMEEWLEQLKAAACDRIAA.....DDLMLNEDAADLGDFDD.....	123
Acr00237	type	II-C	DFIMLDKKNKPNMEEWLEQLKAAACDRIAA.....DDLMLNEDAADLGDLDD.....	123
Acr00238	type	II-C	DFIMLDKKNKPNMEEWLEQLKAAACDRIAA.....DDLMLNEDAADLGDLDD.....	123
Acr00242	type	II-C	DFIMLDKKNKPNMEEWLEQLKAAACDRIAA.....DDLMLNEDAADLGDFDD.....	123
Acr00236	type	II-C	DFIMLDKKNKPNMEEWLEQLKVAACDRIAA.....DDLMLNEDAADLEDLDD.....	123
Acr00235	type	II-C	DFIMLDNNKPNMEEWLEQLKAAACDRIAA.....DDLMLNEDAADLEDLDD.....	123
Acr00253	type	II-C	NFTLFDKVDNK.....SKLKDACDQAI.....DWLTRREFLDSEPDDDED.....	130
Acr00256	type	II-C	NFTLFDKVDNK.....AKLKDACDQAI.....DWLTRREFLDSEPDDDEDD.....	131
Acr00262	type	II-C	NFTLFDKVDNK.....SKLKNACDQAI.....DWLTRRDFLDSEPDDDEDD.....	131
Acr00254	type	II-C	NFTLFDKVDNK.....TKLKKNACDQAI.....DWLTRREFLDSEPDDDEDD.....	131
Acr00252	type	II-C	NFTLFDKVDNK.....AKLKKACDEAIA.....DWLARREFLDSEPDDDEE.....	130
Acr00244	type	II-C	NFTLFDKVDNK.....AKLKKACDDAIA.....DWLTRRDFLDSEPEDDEE.....	130
Acr00243	type	II-C	NFTLFDKVDNK.....AKLKKACDDAIA.....DWLMRRDFLDSEPEDDEE.....	130
Acr00247	type	II-C	NFTLFDKVDNK.....AKLKKACDDAIA.....DWLTRRDFLDSEPEDDEE.....	130
Acr00245	type	II-C	NFTLFDKVDNK.....AKLKKACDDAIA.....DWLTRRDFLDSEPEDDEE.....	130
Acr00246	type	II-C	NFTLFDKVDNK.....AKLKKACDDAIA.....DWLTRRDFLDSEPEDDEE.....	130
Acr00250	type	II-C	NFTLFDKVDNK.....AKLKKACDDAIA.....DWLTRRDFLDSEPEDDEE.....	130
Acr00251	type	II-C	NFTLFDKVDNK.....TKLKKACDDAIA.....DWLTRREFLDSEPEDDEE.....	130
Acr00249	type	II-C	NFTLFDKVDNK.....AKLKQACDDAIA.....DWLTRREFLDSEPEDDEG.....	130
Acr00255	type	II-C	NFTLFDKVDNK.....AKLKKNACDEAIA.....DWLTRRDFLDSE.EDDEE.....	129
Acr00257	type	II-C	NFTLFDKVDNK.....AKLKKNACDEAIA.....DWLTRRDFLDSE.EDDEE.....	129
Acr00258	type	II-C	NFTLFDKVDNK.....AKLKKNACDEAIA.....DWLTRRDFLDSE.EDDEE.....	129
Acr00279	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00282	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00280	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00278	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00281	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	125
Acr00283	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	125
Acr00276	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00271	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00270	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00272	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00284	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00285	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00286	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00263	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00269	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00265	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00275	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00274	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00268	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00266	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00264	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00273	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00277	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126
Acr00267	type	II-C	NFQLFDKMPDK.....QKFKRICDEAIA.....NWMLRREFLDDEEED.....	126

 non conserved  
 similar  
  $\geq 50\%$  conserved