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NTDB id 600 KW2 RS01765 WP 011675413.1	MATK.....KKTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGER.A.NQKVS	VSSGSLALDI	ALGAGGYPKGR	74				
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73					
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73					
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73					
NTDB id 159 SP RS09750 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73					
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73					
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73					
NTDB id 453 Spy49 1753c ACI62003.1	.MAK.....KLKKNEEITKKFGERERKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73					
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK.....RIKKTEEITKKFGERERKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73					
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK.TDTRISTVPSGSLALDI	TALGIGGYPRGR	58				
NTDB id 38548 LPST RS09615 WP 003641504.1	.....MADARKAALDTALKKIEKNFGKGAIMRMGDA.AQTTISTISSGSLALDDALGVGGYPRGR	59					
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMG EK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60					
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAM SQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGI	PRGR	72				
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGV	PKGR	59				
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVF GKGALVRLGDK.QVEKIDISTGSLGLDLALGIGGV	PKGR	61				
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVF GKGALVRLGDK.QVEKIDISTGSLGLDLALGIGGV	PKGR	61				
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSNDDKKKALAAVLEK LDKTYGKGTVMKLGDTVDHNIIEVIPSGSLGLDLALGVGGY	PKGR	68				
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTV..VKQVEPEKQKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGL	PMGR	76					
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGL	PRGR	60				
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGL	PRGR	60				
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGL	PRGR	60				
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDV	ALGVGGLPRGR	68					
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59				
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59				
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSI	STGSLGLDI	ALGIGGLPKGR	59				
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKS KALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59				
NTDB id 1074 ABD1 RS10195 WP 000344167.1MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59					
consensus	*** ** *	*** **	***! **!	*****	*	*****! **!	***! **!	***!

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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGK	ITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	TKKSGAWFAYN	312	
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311	
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311	
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311	
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311	
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311	
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKVAEVEIMYEGISRTGELVKIASDL	DIQKAGAWFSYN	311	
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKEAFVEIIMYGEGISRTGELVKIASDL	GIIQKAGAWYSYN	311	
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....D	MGNKTKIKVVKNKVAPPFR	TAEVDIMYGEGISKEGETIDLGTEL	DIVQKSGSWYSYE	292
NTDB id 38548 LPST RS09615 WP 003641504.1	TIRLEVRRAEIQIKGT.....N	IGNRVRIKVVKNKVAPPFKRAEVD	IMYGGISQTGEIVDMAAEKD	IVKKSWSYSYG	293
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.....D	MGNKTKIKVVKNKVAPPFKRAEVD	IMYGGISRTGELVDMAVEKD	ITKKSWSYSYG	294
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVGND	AVANTVKIKTVKNKVAAPFKEVEL	LIVYGGKGFQDLSDLVGLAADM	DIKKAGSFSYSYK	307
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKIVAT....L.KQNE	EPIGNRVKIKVVKNKVAPPFR	QAEFDVIMYGGISRTGELVDM	AVEKDITKKSWSYSYG	294
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNE	QHIGNRAKAKVVKNKVAPPFR	EAEFDIMFGEGISKEGETIDY	GVKLDIVDKSGAWLSYQ	296
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....L.KQNE	QHIGNRAKAKVVKNKVAPPFR	EAEFDIMFGEGISKEGETIDY	GVKLDIVDKSGAWLSYQ	296
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGE	VGNETKIKVVKNKVAPPFKSAE	FDIMYGEGVSKVGEILDVAT	DLDIQKSGSWSYSYQ	307
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KGD	DEIGSETKIKVVKNKVAPPFR	EVQFDIMYGEGISRMNELL	ILAEANGFIKKSGAWFSYD	310
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETRIVKIKNVAPPFR	QAEFDILYEGEGISWEGEL	IDIGVKNDIINKSGAWYSYN	294
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETRIVKIKNVAPPFR	QAEFDILYEGEGISWEGEL	IDIGVKNDIINKSGAWYSYN	294
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETRIVKIKNVAPPFR	QAEFDILYEGEGISWEGEL	IDIGVKNDIINKSGAWYSYN	294
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKG	DEVGNETKIKVVKNKVAPPFR	EAEFDILYEGAGVSREGEI	IDLGVKAKVVEKSGAWYSYN	302
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVGNETRIKVVKNKIAAPF	KEANTQIMYGGGFNREGEL	IDLGVKHKMVEKSGAWYSYN	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVGNETRIKVVKNKIAAPF	KEANTQIMYGGGFNREGEL	IDLGVKHKMVEKSGAWYSYN	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEG	DEVVGNETRIVKVVKNKVAPPFR	QAEFQILYGGKGIYRNGEI	IDLGVQQGLVEKSGAWYAYK	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEG	DEIGSETKIKVVKNKMAPPF	FREAIQILYGGKGVNQLGEL	VDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEG	DEIVGSETKIKVVKNKMAPPF	KEAIQILYGGKGTNQLGEL	VDLAVQQDIVQKAGAWYSYQ	293
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NTDB id	Accession	Sequence	Position
600	KW2 RS01765 WP 011675413.1	ELED.....	387
269	KZH43 RS08665 WP 001085462.1	DLGDELEIEIEE	388
228	SPD RS09265 WP 001085462.1	DLGDELEIEIEE	388
194	SPR RS08825 WP 001085462.1	DLGDELEIEIEE	388
159	SP RS09750 WP 001085462.1	DLGDELEIEIEE	388
527	SMSK321 RS11065 WP 001085454.1	DLGDELEIEIEE	384
499	SM12261 RS08315 WP 078228268.1	DLGDELEIEIEE	384
453	Spy49 1753c ACI62003.1	DLDNIEIEED..	378
408	SMU RS09530 WP 002262392.1	ELDDTIELED..	383
115	BSU 16940 NP 389576.2	.....	348
38548	LPST RS09615 WP 003641504.1	DLGDQPTEK...	380
625	LCA RS02525 WP 011374196.1	.....	355
1313	DR RS12030 WP 010888966.1	.....	363
1245	Cj1673c YP 002345041.1	.....	343
1211	C694 RS00795 WP 000963128.1	E.....	347
1214	NCTC11637 00359 SQJ03206.1	E.....	347
1334	RAOC RS04870 WP 004918236.1	.....	343
1389	A4U84 RS07560 WP 021112712.1	DVEEFSEEEL..	372
1130	NGFG RS03960 WP 003688695.1	TDGERPEE....	348
1124	NGFG RS03960 WP 003688695.1	TDGERPEE....	348
1123	OK783 RS03845 WP 003688695.1	TDGERPEE....	348
1427	RS RS02760 WP 011000510.1	.....	352
1165	A1552VC RS01565 WP 000344154.1	EFGAVPEEF...	354
1142	GTF74 RS11550 WP 000344154.1	EFGAVPEEF...	354
1205	PSJM300 05545 AFN77183.1	DI.....	347
1022	ACIAD RS06390 WP 004925639.1	DLL..ES.....	349
1074	ABD1 RS10195 WP 000344167.1	DLL..LES.....	349
consensus		*	

non conserved
 similar
 ≥ 50% conserved