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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK....KTNFDDITKKYGAERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK....PKKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK....PKKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK....PKKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK....PKKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK....PKKLDEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK....PKKLDEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK....LKKNEEITKKFGE	DERKALDDALKNIEKD	FGKGVMLRGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR....IKKTEEITKKFGE	DERKALDDALKNIEKD	FGKGVMLRGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73	
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQ	FGKGSIMKLG	EK.TDTRISTVPSGSLALDI	TALGIGGYPRGR	58	
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKN	FGKGSIMRMGEK	.VDTQVSTVSSGSLALDEAL	GVGGYPRGR	60	
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKAT	ETAMSI	EKAFGKGSIMKLGAE	.SKLDVQVVSTGSLSLDL	ALGVGGIPRGR	72
NTDB id 1334 RAOC RS04870 WP 004918236.1MAKT..ETTSNDDKKK	ALAAVLEKLDKT	YGKGTVMKLG	DGTVDHNI	EVIPSGSLGLDL	ALGVGGYPKGR	68
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDSIGTGSVGLDL	ALGIGVPRGR	59	
NTDB id 234406 CDV25 RS00470 WP 108910303.1	.....MALDESKQKATELAIKQID	KAFGKGALIRLGD	K.PVEKIDCISTGSLGLDL	ALGIGGIPRGR	61	
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKAI	ISLAIKQIDKVF	FGKALVRLGD	K.QVEKIDSISTGSLGLDL	ALGIGVPRGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKAI	ISLAIKQIDKVF	FGKALVRLGD	K.QVEKIDAISTGSLGLDL	ALGIGVPRGR	61
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTV..VKQVEPE	QKKQALEAALAI	IEKQFGKGSIMKLGQT	.EQLDIESVSTGSLGLDL	ALGIGGLPMGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAI	IEKSF	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAI	IEKSF	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAI	IEKSF	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSA	EKQKALAAALAI	IEKQFGKGSIMKMGDA	.EVEPVQVVSTGSLGLD	VALGVGGLPRGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALG	IEKQFGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALG	IEKQFGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKS	KALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENK	SKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENK	RALAAALGIEKQ	FGKGVMRMGDH	.DRQAIPSI	STGSLGLDI	ALGIGGLPKGR	59
consensus	*** ** *	***! *!*****	* **!!!*!!*!!*!!*!!*!!*!!*!!				

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NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKIKTKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	IKKSGAWFAYN	312				
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKVAEVEIMYGGEGISRTGELVKIASDLDI	IQKAGAWFSYN	311			
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKAEAFVEIIMYGGEGISRTGELVKIASDLGI	IQKAGAWYSYN	311			
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRAEQLKQGN.....D	MGNKTKIKVVKNKVAPPFR	TAEVDIMYGGEGISKEGETIDLGTEL	DIVQKSGSWYSYE	292		
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRAETIKNGT.....D	MGNKTKIKVVKNKVAPPFR	TAEVDIMYGGEGISRTGELVDM	AVEKDIINKSGSWYSYG	294		
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRKIGQP.....TKVGNDA	VANTVKIKTKVKNKVAAPF	KVEVELALVYGGKGFQDLS	DLVGLAADMDI	IKKAGSFYSYG	307	
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	IGNRTKVKVVKNKVAPPFK	SAEFDIMYGGEGVSKVGEILD	VATDLDI	IQKSGSWFSYQ	307	
NTDB id 1245	Cj1673c	YP 002345041.1		SVRLDVRKVATL.....KQNEEP	IGNRVKVVKNKVAPPFR	QAEFDVDFGEGLSREGEL	IDYGVKLDI	VDKSGAWFSYK	294	
NTDB id 234406	CDV25	RS00470	WP 108910303.1	SVRIDVRRIASL.....KQGEQN	IGNRVKAKVVKNKVAPPFR	GAEFDIMFGEGISKEGEL	IDYGVKLDI	VDKSGAWFSYK	296	
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIRRIASL.....KQNEQH	IGNRAKAKVVKNKVAPPFR	EAEFDIMFGEGISKEGEI	IDYGVKLDI	VDKSGAWLSYQ	296	
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIRRIASL.....KQNEQH	IGNRAKAKVVKNKVAPPFR	EAEFDIMFGEGISKEGEI	IDYGVKLDI	VDKSGAWLSYQ	296	
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIRRCGVV.....KDGDEI	IGSETKVVKNKVAPPFR	EVQFDIMYGGEGISRMNELL	ILAEANGFI	IKKSGAWFSYD	310	
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGSI.....KKGEEV	LGNETRVKVIKNKVAPPFR	QAEFDILYGGEGISWEGEL	IDIGVKNDI	INKSGAWYSYN	294	
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGSI.....KKGEEV	LGNETRVKVIKNKVAPPFR	QAEFDILYGGEGISWEGEL	IDIGVKNDI	INKSGAWYSYN	294	
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIRRTGSI.....KKGEEV	LGNETRVKVIKNKVAPPFR	QAEFDILYGGEGISWEGEL	IDIGVKNDI	INKSGAWYSYN	294	
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIRRIGSI.....KKGDEV	VGNETKVVKNKVAPPFR	EAEFDILYGGAGVSREGEI	IDLGVEAKV	VEKSGAWYSYN	302	
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIRRTGAI.....KEGEEV	VGNETRIKVVKNKIAAPF	KEANTQIMYGGGFNREGEL	IDLGVKHKM	VEKSGAWYSYN	293	
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIRRTGAI.....KEGEEV	VGNETRIKVVKNKIAAPF	KEANTQIMYGGGFNREGEL	IDLGVKHKM	VEKSGAWYSYN	293	
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIRRIGQV.....KEGDEI	IGSETKVVKNKMAPPF	FREAFQILYGGKGNL	LGELVDLAVQQ	NIVQKAGAWYSYQ	293	
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIRRIGQV.....KEGDEI	IGSETKVVKNKMAPPF	FREAFQILYGGKGNL	LGELVDLAVQQ	NIVQKAGAWYSYQ	293	
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIRRTGAV.....KEGDEV	VGSETRVKNKVAPPFR	QAEFQILYGGKIYRNGE	IIDLGVQQGL	LVEKSGAWAYK	293	
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NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	ELEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	ELEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	ELEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	ELEIEIEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	ELEIEIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	ELEIEIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	GIEIED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	TIELED..	383
NTDB id 115 BSU 16940 NP 389576.2	.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	.....	363
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....	343
NTDB id 1245 Cj1673c YP 002345041.1	.....	343
NTDB id 234406 CDV25 RS00470 WP 108910303.1	.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....	347
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	.....	347

consensus

- X non conserved
- X similar
- X ≥ 50% conserved