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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK....KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGER.ANQKVS VSSGSLALDI ALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR....IKKTEEITKKFGDERRKALDDALKNIEKD FGKGVMLRGER.AEQKVQVMSSGSLALDI ALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK....LKKNEEITKKFGDERRKALDDALKNIEKD FGKGVMLRGER.AEQKVQVMSSGSLALDI ALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK.TDTRISTVPSGSLALDI TALGIGGYPKGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPKGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSI EKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPKGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKT FGKGTILRLGDK.EVEQIDS IGTGSGVGLDLALGIGGVPKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVF GKGA LVR LGDK.QVEKIDA ISTGSLGLDLALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVF GKGA LVR LGDK.QVEKIDS ISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPPDDKKKALAAVLEK LDKT YGKGTVMKLG DGTVDHNI EIVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS SKNNTV.VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 339419 ERL55 RS05180 WP 129135480.1	.....MDENKKRALAAALGQIEKQFGKGSVMRMGDR.VVEAAEV IGTGSLMLDI TALGIGGLPKGR	59
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQ QEENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQ QEENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQ QEENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K.KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDV ALGVGGLPKGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDI TALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDI TALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI TALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI TALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKKRALAAALGQIEKQFGKGVMLRMDH.DRQAIPSI STGSLGLDI TALGIGGLPKGR	59
consensus	*** ** * ** *! *!***** * **!*!*!*!*!*! !! *!*	





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NTDB id 600	KW2	RS01765	WP 011675413.1	ASVRLDVRGSTKIEEGS.GDNKTQIGKI	TGK	ITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	TKKSGAWFAY	311					
NTDB id 269	KZH43	RS08665	WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310						
NTDB id 228	SPD	RS09265	WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310						
NTDB id 194	SPR	RS08825	WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310						
NTDB id 159	SP	RS09750	WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310						
NTDB id 527	SMSK321	RS11065	WP 001085454.1	ASVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310						
NTDB id 499	SM12261	RS08315	WP 078228268.1	ASVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310						
NTDB id 408	SMU	RS09530	WP 002262392.1	SSVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKEAFVEITYGEGISRTGELVKIASDLGI	IQKAGAWYSY	310						
NTDB id 453	Spy49	1753c	ACI62003.1	ASVRLDVRGTTQIKGTG.DQKSS	IGKETKIKVVKNKVAPPFKEAFVEIMYGEGISRTGELVKIASDLDI	IQKAGAWFSY	310						
NTDB id 115	BSU	16940	NP 389576.2	SSVRLVRRRAEQLKQGN.....	DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGETIDLGTEL	DIVQKSGSWYSY	291						
NTDB id 625	LCA	RS02525	WP 011374196.1	STVRLVRRRAETIKNGT.....	DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEKDI	INKSGSWYSY	293						
NTDB id 1313	DR	RS12030	WP 010888966.1	ASVRLDVRKIGQ.....	PTKVGNDAVANTVKIKTIVKNKVAAPFKEVELALVYKGFQDLS	DLVGLAADMDITKKAGSFYSY	306						
NTDB id 1245	Cj1673c	YP 002345041.1	ASVRLDVRKIVAT....	L.KQNEEPIGNRVKVVKNKVAPPFRQA	EFDVDFGEGLSREGELIDYGVKLDIVDKSGAWFSY	293							
NTDB id 1214	NCTC11637	00359	SQJ03206.1	ASVRIDIRRIAA....	L.KQNEQHIGNRAKAKVVKNKVAPPFR	EAFFDIFGEGISKEGETIDYGVKLDIVDKSGAWLSY	295						
NTDB id 1211	C694	RS00795	WP 000963128.1	ASVRIDIRRIAS....	L.KQNEQHIGNRAKAKVVKNKVAPPFR	EAFFDIFGEGISKEGETIDYGVKLDIVDKSGAWLSY	295						
NTDB id 1334	RAOC	RS04870	WP 004918236.1	ASVRIDIRRSLSDTGKIKDKS	GEVIGNRTKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDL	DIQKSGSWFSY	306						
NTDB id 1389	A4U84	RS07560	WP 021112712.1	ASVRLDIRRCGV....	V.KDGDEIIGSETKVVKNKVAPPFR	EVQFDIMYGEGISRMNELLILAEANGFITKKSGAWFSY	309						
NTDB id 339419	ERL55	RS05180	WP 129135480.1	ASVRLDIRRIGA....	I.KKGDEIGNQTKIKVVKNKMAPPFK	QVITEILYGEGISREGELIDMGVDAKIVDKAGAWYSY	294						
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SSVRLDIRRTGS....	I.KKGEVVLGNETRVKVIKKNVAPPFR	QAFFDILYGEGISWEGELIDIGVKNDIINKSGAWYSY	293						
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SSVRLDIRRTGS....	I.KKGEVVLGNETRVKVIKKNVAPPFR	QAFFDILYGEGISWEGELIDIGVKNDIINKSGAWYSY	293						
NTDB id 1123	OK783	RS03845	WP 003688695.1	SSVRLDIRRTGS....	I.KKGEVVLGNETRVKVIKKNVAPPFR	QAFFDILYGEGISWEGELIDIGVKNDIINKSGAWYSY	293						
NTDB id 1427	RS	RS02760	WP 011000510.1	ASVRLDIRRIGS....	I.KKGDEVVGNETKVVKNKVAPPFR	EAIFDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSY	301						
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	ASVRLDIRRTGA....	I.KEGEVVLGNETRIKVVKNKIAAPFKEANT	QIMYGGFNREGELIDLGVKHKMVEKSGAWYSY	292						
NTDB id 1142	GTF74	RS11550	WP 000344154.1	ASVRLDIRRTGA....	I.KEGEVVLGNETRIKVVKNKIAAPFKEANT	QIMYGGFNREGELIDLGVKHKMVEKSGAWYSY	292						
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	ASVRLDIRRIGQ....	V.KEGDEIIGSETKVVKNKMAPPFR	EAIFQILYKGVNQLGELVDLAVQQNIVQKAGAWYSY	292						
NTDB id 1074	ABD1	RS10195	WP 000344167.1	ASVRLDIRRIGQ....	V.KEGDEIIGSETKVVKNKMAPPFK	EAIFQILYKGTNQLGELVDLAVQQDIVQKAGAWYSY	292						
NTDB id 1205	PSJM300	05545	AFN77183.1	ASVRLDIRRTGA....	V.KEGDEVVGSETRVKVVKNKVAPPFR	QAFFQILYKGIYRNGEIIDLGVQQGLVEKSGAWAY	292						
consensus				**!!**!*	*	**	*****!!!!!!**	*	*****!****	****	**	***	! !****!



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		IEIEE	
NTDB id 600	KW2 RS01765 WP 011675413.1	.....	387
NTDB id 269	KZH43 RS08665 WP 001085462.1	IEIEE	388
NTDB id 228	SPD RS09265 WP 001085462.1	IEIEE	388
NTDB id 194	SPR RS08825 WP 001085462.1	IEIEE	388
NTDB id 159	SP RS09750 WP 001085462.1	IEIEE	388
NTDB id 527	SMSK321 RS11065 WP 001085454.1	IEIEE	384
NTDB id 499	SM12261 RS08315 WP 078228268.1	IEIEE	384
NTDB id 408	SMU RS09530 WP 002262392.1	LED..	383
NTDB id 453	Spy49 1753c ACI62003.1	IED..	378
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 1245	Cj1673c YP 002345041.1	.....	343
NTDB id 1214	NCTC11637 00359 SQJ03206.1	.....	347
NTDB id 1211	C694 RS00795 WP 000963128.1	.....	347
NTDB id 1334	RAOC RS04870 WP 004918236.1	.....	343
NTDB id 1389	A4U84 RS07560 WP 021112712.1	.....	372
NTDB id 339419	ERL55 RS05180 WP 129135480.1	.....	345
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

 non conserved  
 similar  
 ≥ 50% conserved