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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK....KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGER.ANQKVS SVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK....PKKLEEISKKFGEER EKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK....PKKLEEISKKFGEER EKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK....PKKLEEISKKFGEER EKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK....PKKLEEISKKFGEER EKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK....PKKLDEISKKFGEER EKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK....PKKLDEISKKFGEER EKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR....IKKTEEITKKFGEER KALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK....LKKNEEITKKFGEER R KALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK.TDTRISTVPSGSLALDIALGIGGYPKGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPKGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTD AKERSKATETAMSI EKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPKGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKT FGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVF GK GALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVF GK GALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKKALAAVLEK LDKTYGKGTVMKLG DGTVDHNIIEVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS SKNNTV.VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDV ALGVGGLPRGR	68
NTDB id 405994 GOY17 RS06610 WP 157029776.1	.....MDNKKRALS AALGQIEKQFGKGSVMRMGDR.TIEATEVIGTGSIMLDIALGIGGLPKGR	59
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKS KALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSI STGSLGLDIALGIGGLPKGR	59
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NTDB id 600	KW2	RS01765	WP 011675413.1	ASVRLDVRGSTKIEEGS.GDNKTQIGKI	TGKI	TKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	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 499	SM12261	RS08315	WP 078228268.1	ASVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310						
NTDB id 527	SMSK321	RS11065	WP 001085454.1	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	IGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDLDI	IQKAGAWFSY	310						
NTDB id 115	BSU	16940	NP 389576.2	SSVRLVRRRAEQLKQGN.....	DVMGNKTKIKVVKNKVAPPFR	TAEVDIMYGEGISKEGETIDLGTEL	DIVQKSGSWYSY	291					
NTDB id 625	LCA	RS02525	WP 011374196.1	STVRLVRRRAETIKNGT.....	DMIGNRARIKVVKNKVAPPFKVAEVD	IMYGGISRTGELVDMAVEKDI	INKSGSWYSY	293					
NTDB id 1313	DR	RS12030	WP 010888966.1	ASVRLDVRKIGQ....	PTKVGNDAVANTVKI	IKTVKNKVAAPFKEVELALVY	GKGFQLSDLVGLAADMDI	TKKAGSFYSY	306				
NTDB id 1245	Cj1673c	YP 002345041.1	ASVRLDVRKIVAT....	L.KQNEEPIGNRVK	VVVKNKVAPPFRQA	EFDVDFGEGLSREGELIDY	GVKLDIVDKSGAWFSY	293					
NTDB id 1211	C694	RS00795	WP 000963128.1	ASVRIDIRRIAS....	L.KQNEQHIGNRAK	AKVVKNKVAPPFREAEFD	IMFGEGISKEGETIDY	GVKLDIVDKSGAWLSY	295				
NTDB id 1214	NCTC11637	00359	SQJ03206.1	ASVRIDIRRIAA....	L.KQNEQHIGNRAK	AKVVKNKVAPPFREAEFD	IMFGEGISKEGETIDY	GVKLDIVDKSGAWLSY	295				
NTDB id 1334	RAOC	RS04870	WP 004918236.1	ASVRIDIRRSLSDTGKIKDKS	GEVIGNRTKV	VVVKNKVAPPFKSAEFD	IMYGEGVSKVGEILDV	ATDLDI	IQKSGSWFSY	306			
NTDB id 1389	A4U84	RS07560	WP 021112712.1	ASVRLDIRRCGV....	V.KDGDEIIGSETK	VVVKNKVAPPFR	EVQFDIMYGEGISRMNELL	ILAEANGFI	TKKSGAWFSY	309			
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SSVRLDIRRTGS....	I.KKGEVVLGN	ETRVKVIKKNVAPPFRQA	EFDILYGEGISWEGELID	IGVKNDI	INKSGAWYSY	293			
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SSVRLDIRRTGS....	I.KKGEVVLGN	ETRVKVIKKNVAPPFRQA	EFDILYGEGISWEGELID	IGVKNDI	INKSGAWYSY	293			
NTDB id 1123	OK783	RS03845	WP 003688695.1	SSVRLDIRRTGS....	I.KKGEVVLGN	ETRVKVIKKNVAPPFRQA	EFDILYGEGISWEGELID	IGVKNDI	INKSGAWYSY	293			
NTDB id 1427	RS	RS02760	WP 011000510.1	ASVRLDIRRIGS....	I.KKGEDEVVGN	ETKVVVVKNKVAPPFR	EAFDILYGAGVSR	EGEITDLGVEAKV	VEKSGAWYSY	301			
NTDB id 405994	GOY17	RS06610	WP 157029776.1	ASVRLDIRRIGS....	I.KKGEDEIIGN	QTRIKVVKNKLAPPFK	QVVTIILYGEGISRE	GELIDMGVEAKL	VEKSGAWYSA	294			
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	ASVRLDIRRTGA....	I.KEGEDEVVGN	ETRIKVVKNKIAAPFKE	ANTQIMYGGFN	REGELIDLGVKHK	MVEKSGAWYSY	292			
NTDB id 1142	GTF74	RS11550	WP 000344154.1	ASVRLDIRRTGA....	I.KEGEDEVVGN	ETRIKVVKNKIAAPFKE	ANTQIMYGGFN	REGELIDLGVKHK	MVEKSGAWYSY	292			
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	ASVRLDIRRIGQ....	V.KEGDEIIG	SETKVVVVKNKMAPPF	REAFQILYGKGVN	QLGELVDLAVQQN	IVQKAGAWYSY	292			
NTDB id 1074	ABD1	RS10195	WP 000344167.1	ASVRLDIRRIGQ....	V.KEGDEIIG	SETKVVVVKNKMAPPF	REAFQILYGKGTN	QLGELVDLAVQQD	IVQKAGAWYSY	292			
NTDB id 1205	PSJM300	05545	AFN77183.1	ASVRLDIRRTGA....	V.KEGDEVVGS	ETRVKVVKNKVAPPFR	QA	EFDILYGKGIYR	NGEITDLGVQQGL	VEKSGAWYAY	292		
consensus				**! !**!*	*	**	*****! ! ! ! ! ! ! ! ! ! *	*	*****! !**	*****	**	***	! !*****

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	E	I	E	E	
NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	E	I	E	E	388
NTDB id 228 SPD RS09265 WP 001085462.1	E	I	E	E	388
NTDB id 194 SPR RS08825 WP 001085462.1	E	I	E	E	388
NTDB id 159 SP RS09750 WP 001085462.1	E	I	E	E	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	I	E	E	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E	I	E	E	384
NTDB id 408 SMU RS09530 WP 002262392.1	E	D	.	.	383
NTDB id 453 Spy49 1753c ACI62003.1	E	D	.	.	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 1211 C694 RS00795 WP 000963128.1	.	.	.	.	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.	.	.	.	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	.	.	.	.	343
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 405994 GOY17 RS06610 WP 157029776.1	.	.	.	.	344
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