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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGAERDKALADALALIEKD	FGKGSIMRLGER	.ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 0028228268.1	.MAKKP....KKLDEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKFGE	DERKKALDDALKNIEKD	FGKGVMLRGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKFGE	DERRKALDDALKNIEKD	FGKGVMLRGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73	
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQ	FGKGSIMKLG	IEK.TDTR	ISTVPSGSLALDI	TALGIGGYPRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKN	FGKGSIMRMGEK	.VDTQVSTVSSGSLALDEAL	GVGGYPRGR		60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKAT	ETAMSQIEKA	FGKGSIMKLGAE	.SKLDVQVVSTGSLSLDL	ALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDS	IGTGSVGLDL	ALGIGGVPKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQID	KVFGKGVLRGDK	.QVEKIDA	ISTGSLGLDL	ALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQID	KVFGKGVLRGDK	.QVEKIDS	ISTGSLGLDL	ALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1MAKT..ETSPNDKKKALAAVLEK	LDKTYGKGTVMKLG	GTVDHNI	IEVIPS	SGSLGLDL	ALGVGGYPKGR	68
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEENLEVISTGSLGLDL	ALGVGGLPRGR		60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEENLEVISTGSLGLDL	ALGVGGLPRGR		60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEENLEVISTGSLGLDL	ALGVGGLPRGR		60
NTDB id 347653 EYC54 RS10010 WP 019300309.1	.....MDENKKRALSAALSQIEKQ	FGKGSVMRMGDR	.VIEAVEV	IPTGSLMLDI	TALGIGGLPKGR	59
NTDB id 1427 RS RS02760 WP 011000510.1	.....MEDGK..KAASMSAEKQKALAAALAQIEKQ	FGKGSIMKMGDA	.EVEPVQV	VSTGSLGLDV	ALGVGGLPRGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNTV.VKQVEPEKQKQALEAALAQIEKQ	FGKGSIMKLGQT	.EQLDIES	VSTGSLGLDL	TALGIGGLPMGR	76
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVET	ISTGSLSLDI	TALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVET	ISTGSLSLDI	TALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEA	VSTGSLTLDI	TALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEA	VSTGSLTLDI	TALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKKRALAAALGQIEKQ	FGKGVMRMGDH	.DRQAIPS	ISTGSLGLDI	TALGIGGLPKGR	59	
consensus	*** ** *	***! *!*****	*	***!****!!	!! *!*		

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NTDB id 600	KW2	RS01765	WP 011675413.1	ASVRLDVRGSTKIEEGS.GDNKTI	IGKI	TKIKVVKNKVAPPFKVALVDIMF	GEGISSTGELINIAVEEGIT	KKSGAWFAY	311				
NTDB id 269	KZH43	RS08665	WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFK	EAVVEIMYGEGISKTGELLK	IASDLDIKKAGAWYSY	310					
NTDB id 228	SPD	RS09265	WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFK	EAVVEIMYGEGISKTGELLK	IASDLDIKKAGAWYSY	310					
NTDB id 194	SPR	RS08825	WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFK	EAVVEIMYGEGISKTGELLK	IASDLDIKKAGAWYSY	310					
NTDB id 159	SP	RS09750	WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFK	EAVVEIMYGEGISKTGELLK	IASDLDIKKAGAWYSY	310					
NTDB id 527	SMSK321	RS11065	WP 001085454.1	ASVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFK	EAFVEIMYGEGISKTGELLK	IASDLDIKKAGAWYSY	310					
NTDB id 499	SM12261	RS08315	WP 0028228268.1	ASVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFK	EAFVEIMYGEGISKTGELLK	IASDLDIKKAGAWYSY	310					
NTDB id 408	SMU	RS09530	WP 002262392.1	SSVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFK	EAFVEITYGEGISRTGELVK	IASDLGIQKAGAWYSY	310					
NTDB id 453	Spy49	1753c	ACI62003.1	ASVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFK	VAEVEIMYGEGISRTGELVK	IASDLDIQKAGAWFSY	310					
NTDB id 115	BSU	16940	NP 389576.2	SSVRLVRRAEQLKQGN.....	DVMGNKTKIKVVKNKVAPPFR	TAEVDIMYGEGISKEGETI	IDLGTELDIVQKSGSWYSY	291					
NTDB id 625	LCA	RS02525	WP 011374196.1	STVRLVRRAEETIKNGT.....	DMIGNRARIKVVKNKVAPPFK	VAEVDIMYGGISRTGELVD	MAVEKDIINKSGSWYSY	293					
NTDB id 1313	DR	RS12030	WP 010888966.1	ASVRLDVRKIGQ....PTKVGND	AVANTVKIKTIVKNKVAAPFK	EVELALVYGGKGFDSLVL	GLAADMDITKKAGSFYSY	306					
NTDB id 1245	Cj1673c	YP 002345041.1	ASVRLDVRKIVAT....L.KQNE	EPIGNRVKVVKNKVAPPFR	QAEFDVMFGEGLSREGEL	IDYGVKLDIVDKSGAWFSY	293						
NTDB id 1214	NCTC11637	00359	SQJ03206.1	ASVRIDIRRIAA....L.KQNE	QHIGNRAKAKVVKNKVAPPFR	EAEFDMIFGEGISKEGETI	IDYGVKLDIVDKSGAWLSY	295					
NTDB id 1211	C694	RS00795	WP 000963128.1	ASVRIDIRRIAS....L.KQNE	QHIGNRAKAKVVKNKVAPPFR	EAEFDMIFGEGISKEGETI	IDYGVKLDIVDKSGAWLSY	295					
NTDB id 1334	RAOC	RS04870	WP 004918236.1	ASVRIDIRRSLSDTGKIKDKS	GEVIGNRTKVVKNKVAPPFK	SAEFDIMYGEGVSKVGEIL	DVATDLDIQKSGSWFSY	306					
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SSVRLDIRRTGS....I.KKG	EEVLGNETRVKVIKNKVAPPFR	QAEFDILYGEGISWEGEL	IDIGVKNDIINKSGAWYSY	293					
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SSVRLDIRRTGS....I.KKG	EEVLGNETRVKVIKNKVAPPFR	QAEFDILYGEGISWEGEL	IDIGVKNDIINKSGAWYSY	293					
NTDB id 1123	OK783	RS03845	WP 003688695.1	SSVRLDIRRTGS....I.KKG	EEVLGNETRVKVIKNKVAPPFR	QAEFDILYGEGISWEGEL	IDIGVKNDIINKSGAWYSY	293					
NTDB id 347653	EYC54	RS10010	WP 019300309.1	ASVRLDIRRIGA....I.KKG	DEIIGNQTKIKVVKNKLAPPFK	QVVTEILYGEGISREGEL	IDMGVEAKLVEKAGAWYSY	294					
NTDB id 1427	RS	RS02760	WP 011000510.1	ASVRLDIRRIGS....I.KKG	DEVVGNETKVVKNKVAPPFR	EAEFDMIFGEGISWEGEL	IDIGVKNDIINKSGAWYSY	293					
NTDB id 1389	A4U84	RS07560	WP 021112712.1	ASVRLDIRRCGV....V.KDG	DEIIGSETKVVKNKVAPPFR	EVQFDIMYGEGISRMNELL	LILAEANGFIKKSGAWFSY	309					
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	ASVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKIAAPFK	EANTQIMYGGFNREGEL	IDLGVKKHMKVEKSGAWYSY	292					
NTDB id 1142	GTF74	RS11550	WP 000344154.1	ASVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKIAAPFK	EANTQIMYGGFNREGEL	IDLGVKKHMKVEKSGAWYSY	292					
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	ASVRLDIRRIGQ....V.KEG	DEIIGSETKVVKNKMAPPFR	EAEFQILYGGKGNLQEL	VDLAVQQNIVQKAGAWYSY	292					
NTDB id 1074	ABD1	RS10195	WP 000344167.1	ASVRLDIRRIGQ....V.KEG	DEIIGSETKVVKNKMAPPFR	EAEFQILYGGKGNLQEL	VDLAVQQDIVQKAGAWYSY	292					
NTDB id 1205	PSJM300	05545	AFN77183.1	ASVRLDIRRTGA....V.KEG	DEVVGSETRVKVVKNKVAPPFR	QAEFQILYGGKIYRNGE	IIDLGVQQGLVEKSGAWAY	292					
consensus				**!!**!*	*	**	*****!!!!!!**	*	*****!***	*****	**	***	! !****!

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NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	EIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
NTDB id 453 Spy49 1753c ACI62003.1	ED..	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 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 347653 EYC54 RS10010 WP 019300309.1	....	344
NTDB id 1427 RS RS02760 WP 011000510.1	....	352
NTDB id 1389 A4U84 RS07560 WP 021112712.1	....	372
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