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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGER.A.NQKVS VSSGSLALDI ALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLI EKDFGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLI EKDFGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLI EKDFGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLI EKDFGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLDEISKKFGAEREKALNDALKLI EKDFGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGAEREKALNDALKLI EKDFGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFGDERRKALDDALKN IEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDI ALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFGDERRKALDDALKN IEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDI ALGAGGYPKGR	73
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKD ERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 63165 U471 RS08355 WP 003154145.1	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK.TDTRISTVPSGSLALDTALGIGGYPRGR	58
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK.TDTRISTVPSGSLALDTALGIGGYPRGR	58
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKA FGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDNKRKSLDAALKS LDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDE DKQKATISLAIKQIDKVF GKGA LVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDE DKQKATISLAIKQIDKVF GKGA LVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPND DKKKALAAVLEKLDKTYGKGTVMKLG DGTVDHNIIEVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTV..VKQVEPEQKKQALEAALAQIEKQ FGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSD DKSALAAALAQIEKSF GKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSD DKSALAAALAQIEKSF GKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSD DKSALAAALAQIEKSF GKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQ FGKGSIMKMGDA.EVEPVQVVSTGSLGLDV ALGVGGLPRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLG DN.RAMDVETISTGSLSLDI ALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLG DN.RAMDVETISTGSLSLDI ALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSALQAALSQIEKQFGKNTVMRLG DN.TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSALQAALSQIEKQFGKNTVMRLG DN.TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKKRALAAALGQIEKQFGKGAVMRMG DH.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	VGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKAEAFVEIITYGEGISRTGELVKIASDLGI	IQQKAGAWYSYN	311			
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDLDI	IQQKAGAWFSYN	311			
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRRAETIKNGT.....DM	IGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEKDI	INKSGSWYSYG	294			
NTDB id 63165	U471	RS08355	WP 003154145.1	SVRLEVRRRAEQLKQGN.....DV	MGNKTRIKVVKNKVAPPFR	TAEVDIMYGEGISKEGEIIDLGT	ELDIVQKSGSWYSYE	292		
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRRAEQLKQGN.....DV	MGNKTKIKVVKNKVAPPFR	TAEVDIMYGEGISKEGEIIDLGT	ELDIVQKSGSWYSYE	292		
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRKIGQ....PTKVGND	AVANTVKIKTVKNKVAAPFK	LEVELALVYGGKGFQDLS	DLVGLAADMDI	IKKAGSFYSYG	307	
NTDB id 1245	Cj1673c	YP 002345041.1		SVRLDVRKVAT....L.KQNE	EPIGNRVKIKVVKNKVAPPFR	QAEFDVMFGEGLSREGEL	IDYGVKLDIV	DKSGAWFSYK	294	
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIRRIAS....L.KQNE	QHIGNRAKIKVVKNKVAPPFR	EAEFDIMFGEGISKEGEI	IDYGVKLDIV	DKSGAWLSYQ	296	
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIRRIAA....L.KQNE	QHIGNRAKIKVVKNKVAPPFR	EAEFDIMFGEGISKEGEI	IDYGVKLDIV	DKSGAWLSYQ	296	
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIRRLS	DTGKIKDKSGEVIGNRTKIKVVKNKVAPPFK	SAEFDIMYGEGVSKVGEILD	VATDLDI	IQQKSGWFSYQ	307	
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIRRCGV....V.KGD	DEIIGSETKIKVVKNKVAPPFR	EVQFDIMYGEGISRMNELL	ILAEANGFI	IKKSGAWFSYD	310	
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETR	VKVIKKNVAPPFRQAEFD	DILYGEGISWEGEL	IDIGVKNDI	INKSGAWYSYN	294
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETR	VKVIKKNVAPPFRQAEFD	DILYGEGISWEGEL	IDIGVKNDI	INKSGAWYSYN	294
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETR	VKVIKKNVAPPFRQAEFD	DILYGEGISWEGEL	IDIGVKNDI	INKSGAWYSYN	294
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIRRIGS....I.KKG	DEVVGNETKIKVVKNKVAPPFR	EAEFD	DILYGAGVSREGEI	IDLGVEAKV	VEKSGAWYSYN	302
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKIAAPFK	EANTQIMYGGGFNREGEL	IDLGVKHKM	VEKSGAWYSYN	293	
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKIAAPFK	EANTQIMYGGGFNREGEL	IDLGVKHKM	VEKSGAWYSYN	293	
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKIKVVKNKMAPPFR	EAEIFQILYGGKGNL	GELVDLAVQQN	IVQKAGAWYSYQ	293	
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKIKVVKNKMAPPFR	EAEIFQILYGGKGTN	QLGELVDLAVQQD	IVQKAGAWYSYQ	293	
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIRRTGA....V.KEG	DEVVGS	ETRVKVVKNKVAPPFRQAEFQ	ILYGGKIYRNGE	IDLGVQQGL	VEKSGAWAYK	293
consensus				*! ! * * * ! * *	* * *	* * * * * ! * * ! ! * * ! ! ! * *	* * * * * ! * ! * * * * * * * * * * * *	* * * * * ! * * * * * * * * * * * *	* * * * * ! * * * * * ! * * * * * ! * * * * * !	

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NTDB id 1130 NGFG RS03960 WP 003688695.1	...	348
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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