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NTDB id 600 KW2 RS01765 WP 011675413.1	MATK....KKTNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK....KPKKLDEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK....KPKKLDEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAK....KLKKNEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK....RIKKTEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73	
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKD	ERQAALDAALKKIEKN	FGKGSIMRMGEK	.VDTQVSTVSSGSLALDEALGVGGYPRGR	60		
NTDB id 171397 AYM31 RS07055 WP 000368166.1	.....MDN	DRQKALDVTIKNMEKS	FGKGAVMKLGDN	.IGRRVSTTSTGSVTLDMALGVGGYPRGR	59		
NTDB id 115 BSU 16940 NP 389576.2	.....MS	DRQAALDMALKQIEKQ	FGKGSIMKLGK	.TDTRISTVPSGSLALDTALGIGGYPRGR	58		
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTD	ERSKATETAMSQIEKA	FGKGSIMKLGAE	.SKLDVQVVSTGSLSLDLALGVGGYPRGR	72		
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDN	KRKSALDAALKS	LDKTFGKGTILRLGDK	.EVEQIDSIGTGSVGLDLALGIGGVPRGR	59		
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDE	DKQKATISLAIKQIDKVF	FGKGALVRLGDK	.QVEKIDSISTGSLGLDLALGIGGVPRGR	61		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDE	DKQKATISLAIKQIDKVF	FGKGALVRLGDK	.QVEKIDAISTGSLGLDLALGIGGVPRGR	61		
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPND	DKKALAAVLEKLDKTYGKGTVMKLG	DGTVDHNI	IEVIPSGSLGLDLALGVGGYPRGR	68		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTV..VKQVEPEK	KKQALEAALAIKQIEKQ	FGKGSIMKLGQT	.EQLDIESVSTGSLGLDLALGIGGLPMGR	76		
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALAIKQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDLALGVGGLPRGR	60		
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALAIKQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDLALGVGGLPRGR	60		
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSD	DKSKALAAALAIKQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDLALGVGGLPRGR	60		
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSA	EKQKALAAALAIKQIEKQ	FGKGSIMKMGDA	.EVEPVQVVSTGSLGLDVALGVGGLPRGR	68		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDEN	KQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDEN	KQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDN	KSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDEN	KSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDEN	KKRALAAALGQIEKQ	FGKGAVMRMGDH	.DRQAIPSI	STGSLGLDI	ALGIGGLPKGR	59
consensus		* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	





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NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTTGKIKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGITIKKSGAWFAYN	312
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNKGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNKGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNKGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNKGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTNKGKETKIKVVKNKVAPPFKAEAFVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTNKGKETKIKVVKNKVAPPFKAEAFVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSNIGKETKIKVVKNKVAPPFKVAEVEIMYGGISRTGELVKIASDLDIQKAGAWFSYN	311
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKAEAFVEIIMYGEGISRTGELVKIASDLGIQKAGAWYSYN	311
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEKDIINKSGSWYSYG	294
NTDB id 171397	AYM31	RS07055	WP 000368166.1	SVRLEVRRAEQLKQGG.....EIVGNRTKIKVVKNKVAPPFRVAEVDIMYGGISKEGELIDLGVENDIVDKSGAWYSYN	293
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGETIDLGTELDIVQKSGSWYSYE	292
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRKIGQ....PTKVGNDAVANTVTKIKTVKNKVAAPFKLEVELALVYGGKGFQDLSDLVGLAADMDIINKAGSFYSYG	307
NTDB id 1245	Cj1673c	YP 002345041.1		SVRLDVRKVAT....L.KQNEEPIGNRVKIKVVKNKVAPPFRQAEEFDVIMFGEGLSREGELIDYGVKLDIVDKSGAWFSYK	294
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFRQAEEFDIMFGEGISKEGETIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFRQAEEFDIMFGEGISKEGETIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIRRLSDDTGKIKDKSGEVIGNRTKIKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDIQKSGSWFSYQ	307
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIRRCGV....V.KGDDEIIGSETKVVVKNKVAPPFRVQFDIMYGEGISRMNELLILAEANGFIKKSGAWFSYD	310
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRKKIKNVAPPFRQAEEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRKKIKNVAPPFRQAEEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRKKIKNVAPPFRQAEEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIRRIGS....I.KKGEDEVGNETKVVVKNKVAPPFRQAEEFDILYEGAGVSREGEIDLGVEAKVVEKSGAWYSYN	302
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVLGNETRIKVVKNKIAAPFKAEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVLGNETRIKVVKNKIAAPFKAEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIRRIGQ....V.KEGDEIIGSETKVVVKNKMAPPFRQAEEFDILYGGKGNLQGLVLDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIRRIGQ....V.KEGDEIIGSETKVVVKNKMAPPFRQAEEFDILYGGKGNLQGLVLDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIRRTGA....V.KEGDEVVGSSETRVKNVKNVAPPFRQAEEFDILYGGKGIYRNGEIDLGVQQGLVEKSGAWAYK	293
consensus				*!!**!* * ** *****!!*!!*!!*!!* * *****!*!*** ***** ** ***** ! !*****!	



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NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 625 LCA RS02525 WP 011374196.1	...	355
NTDB id 171397 AYM31 RS07055 WP 000368166.1	...	347
NTDB id 115 BSU 16940 NP 389576.2	...	348
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 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