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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGER.A.NQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 0028228268.1	.MAKKP....KKLDEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK.TDTRISTVPSGSLALDIALGIGGYPRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVF GK GALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVF GK GALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKKALAAVLEK LDKTYGKGTVMKLG DGTVDHNIIEVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 184831 A9D66 RS09715 WP 003481871.1	.....MDENKKRALSAALSQIEKQFGKGSVMRMGDR.VIEAVEV IPTGSLMLDIALGIGGLPKGR	59
NTDB id 1427 RS RS02760 WP 011000510.1	.....MEDGK..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDV ALGVGGLPRGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS SKNNTV.VKQVEPEKQKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
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	.....MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSI STGSLGLDIALGIGGLPKGR	59
consensus	*** ** * ** *! *!***** * **!!!*!!*!!*!!*!!*!!*!!*!!	

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NTDB id 600	KW2	RS01765	WP 011675413.1	ASVRLDVRGSTKIEEGS.GDNKTTGKIKTKIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNTAVEEGITIKKSGAWFAY	311
NTDB id 269	KZH43	RS08665	WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDTIKKAGAWYSY	310
NTDB id 228	SPD	RS09265	WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDTIKKAGAWYSY	310
NTDB id 194	SPR	RS08825	WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDTIKKAGAWYSY	310
NTDB id 159	SP	RS09750	WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDTIKKAGAWYSY	310
NTDB id 527	SMSK321	RS11065	WP 001085454.1	ASVRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDTIKKAGAWYSY	310
NTDB id 499	SM12261	RS08315	WP 0028228268.1	ASVRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDTIKKAGAWYSY	310
NTDB id 408	SMU	RS09530	WP 002262392.1	SSVRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEITYGEGISRTGELVKIASDLGITIKKAGAWYSY	310
NTDB id 453	Spy49	1753c	ACI62003.1	ASVRLDVRGTTQIKGTG.DQKSSIGKETKIKVVKNKVAPPFKEAFVEIMYGEGISRTGELVKIASDLDTIKKAGAWFSY	310
NTDB id 115	BSU	16940	NP 389576.2	SSVRLVRRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVIMYGEGISKEGETIDLGTELIDIVQKSGSWYSY	291
NTDB id 625	LCA	RS02525	WP 011374196.1	STVRLVRRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEKDIINKSGSWYSY	293
NTDB id 1313	DR	RS12030	WP 010888966.1	ASVRLDVRKIGQ....PTKVGNDVAVANTVKKIKTVKNKVAAPPFKEVELALVYGGKGFQDLSDLVGLAADMDITIKKAGSFYSY	306
NTDB id 1245	Cj1673c	YP 002345041.1		ASVRLDVRKIVAT....L.KQNEEPIGNRVKVVVKNKVAPPFRQAEEFDVDFGEGLSREGELIDYGVKLDIVDKSGAWFSY	293
NTDB id 1214	NCTC11637	00359	SQJ03206.1	ASVRIDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDFIMFGEGISKEGETIDYGVKLDIVDKSGAWLSY	295
NTDB id 1211	C694	RS00795	WP 000963128.1	ASVRIDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDFIMFGEGISKEGETIDYGVKLDIVDKSGAWLSY	295
NTDB id 1334	RAOC	RS04870	WP 004918236.1	ASVRIDIRRSLSDTGKIKDKSGEVIGNRTKVVVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDTIQKSGSWFSY	306
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SSVRLDIRRTGS....I.KKGEVVLGNETRVKVIKNKVAPPFRQAEEFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSY	293
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SSVRLDIRRTGS....I.KKGEVVLGNETRVKVIKNKVAPPFRQAEEFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSY	293
NTDB id 1123	OK783	RS03845	WP 003688695.1	SSVRLDIRRTGS....I.KKGEVVLGNETRVKVIKNKVAPPFRQAEEFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSY	293
NTDB id 184831	A9D66	RS09715	WP 003481871.1	ASVRLDIRRIGA....I.KKGEDEIGNQTKIKVVKNKLAPPFKQVVTEILYGGEGISREGELIDMGVEAKLVDKAGAWYSY	294
NTDB id 1427	RS	RS02760	WP 011000510.1	ASVRLDIRRIGS....I.KKGEDEVVGNETKVVVVKNKVAPPFREAIFFDILYGGAGVSREGETIDLGVEAKVVEKSGAWYSY	301
NTDB id 1389	A4U84	RS07560	WP 021112712.1	ASVRLDIRRCGV....V.KDGEIIGSETKVVVVKNKVAPPFREVFQDILYGGEGISRMNELLILAEANGFIKKSGAWFSY	309
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	ASVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSY	292
NTDB id 1142	GTF74	RS11550	WP 000344154.1	ASVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSY	292
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	ASVRLDIRRIGQ....V.KEGDEIIGSETKVVVVKNKMAPPFREAIFFQILYGGKGVNQLGELVDLAVQQNIVQKAGAWYSY	292
NTDB id 1074	ABD1	RS10195	WP 000344167.1	ASVRLDIRRIGQ....V.KEGDEIIGSETKVVVVKNKMAPPFREAIFFQILYGGKGTNQLGELVDLAVQQDIVQKAGAWYSY	292
NTDB id 1205	PSJM300	05545	AFN77183.1	ASVRLDIRRTGA....V.KEGDEVVGSSETRVQVVKNKVAPPFRQAEEFQILYGGKGIYRNGEIIDLGVQQGLVEKSGAWAY	292
consensus				**!!**!* * ** **!!**!!**!!**! * **!!**!* **!!**! **!!**! **!!**! **!!**!	

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NTDB id 600	KW2	RS01765	WP	011675413.1	NDEKIGQGA	EKAKNYLKEHQDVF	DEIDHKVRAAHGI	LDDSEVAETEEETT	ASKTKAKAKKEEKAVETEEIELELED...	387		
NTDB id 269	KZH43	RS08665	WP	001085462.1	KDEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGI	LIDGEEVSEQDTEN	KKDE...PKKEEA..VNEEVPLDLGDELEI	384		
NTDB id 228	SPD	RS09265	WP	001085462.1	KDEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGI	LIDGEEVSEQDTEN	KKDE...PKKEEA..VNEEVPLDLGDELEI	384		
NTDB id 194	SPR	RS08825	WP	001085462.1	KDEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGI	LIDGEEVSEQDTEN	KKDE...PKKEEA..VNEEVPLDLGDELEI	384		
NTDB id 159	SP	RS09750	WP	001085462.1	KDEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGI	LIDGEEVSEQDTEN	KKDE...PKKEEA..VNEEVPLDLGDELEI	384		
NTDB id 527	SMSK321	RS11065	WP	001085454.1	KDEKIGQGS	ENAKKYLADNPEV	FAEIDHQVVRVQF	GLIDGEEAAE...	SKKDE...VAQVDS..VNEEVTLDLGDELEI	380		
NTDB id 499	SM12261	RS08315	WP	078228268.1	KDEKIGQGS	ENAKKYLADNPEI	FDEIDHQVVRVQF	GLIDGEEIAE...	SKKDE...AAQVDS..VNEEVTLDLGDELEI	380		
NTDB id 408	SMU	RS09530	WP	002262392.1	NGEKIGQGS	ENAKKFLADNPEI	FDDIDHKVVRVQY	GLIEEDNTEEKQSS	KEK.....ETDEK..ADKNLVLELDDTIEL	381		
NTDB id 453	Spy49	1753c	ACI	62003.1	NGEKIGQGS	ENAKRYLADHPQL	FDEIDRKVVRVQF	GLLEESEESAMAV	ASE.....E.....TDDLALDLDNNGIEI	376		
NTDB id 115	BSU	16940	NP	389576.2	EEERLGGG	RENAKQFLKENKD	IMLMIQEQIREHY	GLDNNGVVQQAE	ETQEEL.EFE.E.....	348		
NTDB id 625	LCA	RS02525	WP	011374196.1	GSERIGGG	RENAKNYLADHED	VEDEVRLKVRAA	YGISDVPEEDLP	TTTEDE.QI.NILPDDST.....EE.....	355		
NTDB id 1313	DR	RS12030	WP	010888966.1	GDERIGGG	KEKTIAYTAERPE	MEQEIRDRVMAA	IRAGNAGEAPAL	APAPAPEAAEA.....	363		
NTDB id 1245	Cj1673c	YP	002345041.1	KDKKLG	GGRENSKAFLEK	ENPEIADEITKA	IQNSMGTIEGMI	.....SGSEDDE	GE.....	343	
NTDB id 1214	NCTC11637	00359	SQJ	03206.1	QDKKLG	GGRENAKALLK	EDKALADEITLK	IKESIGSNEEIMPLPDEPLE	EME.....	347	
NTDB id 1211	C694	RS00795	WP	000963128.1	QDKKLG	GGRENAKALLK	EDKALADEITLK	IKESIGSNEEIMPLPDEPLE	EME.....	347	
NTDB id 1334	RAOC	RS04870	WP	004918236.1	QDTKLG	GGRDITVKELIK	DNPELAEELEAK	IREKLQAK.....	343			
NTDB id 1130	NGFG	RS03960	WP	003688695.1	NGAKIG	QGGKDNVRVWL	KENPEISDEIDAK	IRALNGVEMHITEGTQDET	DGER.....PEE.....	348	
NTDB id 1124	NGFG	RS03960	WP	003688695.1	NGAKIG	QGGKDNVRVWL	KENPEISDEIDAK	IRALNGVEMHITEGTQDET	DGER.....PEE.....	348	
NTDB id 1123	OK783	RS03845	WP	003688695.1	NGAKIG	QGGKDNVRVWL	KENPEISDEIDAK	IRALNGVEMHITEGTQDET	DGER.....PEE.....	348	
NTDB id 184831	A9D66	RS09715	WP	003481871.1	GDERIG	QGGKDNARTYLR	DNPVATRLEAEL	REKFPAPAEAPREAGDDED	KE.....	344	
NTDB id 1427	RS	RS02760	WP	011000510.1	NGERIG	GGRDNCREFLRE	NAELAREIENK	VREHLGVTPMGAVTLAAE	VEED.....	352	
NTDB id 1389	A4U84	RS07560	WP	021112712.1	DGTKIG	QGGKNNAVKWL	KENPEIADKLEQ	EIRNTLASNPNSVLKATAS	DSNDESDV..EEFSE	EEL.....	372
NTDB id 1165	A1552VC	RS01565	WP	000344154.1	NGDKIG	QGGKANACKYL	KENPEIAKTL	DKKLRREMLLN	PENM.....QLIA	ETSSAADDVEF..	GAVPEEF.....	354
NTDB id 1142	GTF74	RS11550	WP	000344154.1	NGDKIG	QGGKANACKYL	KENPEIAKTL	DKKLRREMLLN	PENM.....QLIA	ETSSAADDVEF..	GAVPEEF.....	354
NTDB id 1022	ACIAD	RS06390	WP	004925639.1	QGNKIG	QGGKNNVIRY	LEENPQISTE	IEAVIREQLLT	KASD.....QTA	A.HDETEE	EPDL..L..ES.....	349
NTDB id 1074	ABD1	RS10195	WP	000344167.1	QGNKIG	QGGKNNVIRY	FEENNQIAE	EIERNIREQLLT	TGTN.....GAV	Q.I.EDEE	EPDL..L..LES.....	349
NTDB id 1205	PSJM300	05545	AFN	77183.1	KGSKIG	QGGKANAAKY	LEENPEIGQ	EIEQQIRAKLL	VTSAN.....TK	ATPVAED	LADADI.....	347
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 184831 A9D66 RS09715 WP 003481871.1	....	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