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NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK...KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK...KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK...KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 159 SP RS09750 WP 001085462.1	.MAK...KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK...KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK...KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK...RIKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRI	74
NTDB id 453 Spy49 1753c ACI62003.1	.MAK...KLKKNEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRI	74
NTDB id 95616 LGMS210922A RS01135 WP 074750715.1	MATK...KKKKLEDITKKYGAEREKALKDALDLIEKDFGKGSIMRLGEA.ASQKVQVTSGSLALDIALGAGGYPKGRI	75
NTDB id 600 KW2 RS01765 WP 011675413.1	MATK...KKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGEA.ANQKVSQVSSGSLALDIALGAGGYPKGRI	75
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRI	61
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGEEK.TDTRISTVPSGSLALDTALGIGGYPRGRI	59
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQLIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRI	73
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIIGTGSVGLDLALGIGGVPKGRI	60
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVFVGKCALVRLGDK.QVEKIDAIISTGSLGLDLALGIGGVPKGRI	62
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVFVGKCALVRLGDK.QVEKIDSIISTGSLGLDLALGIGGVPKGRI	62
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDKKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIIEVIPSGLGLDLALGVGGYPKGRI	69
NTDB id 1389 A4U84 RS07560 WP 021112712.1	MAENKKSSKNNTV..VKQVEPEQKKQALEAALAAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRI	77
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAAQIEKSFGKGAIMKMDGSQQEENLEVIISTGSLGLDLALGVGGLPRGRI	61
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAAQIEKSFGKGAIMKMDGSQQEENLEVIISTGSLGLDLALGVGGLPRGRI	61
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAAQIEKSFGKGAIMKMDGSQQEENLEVIISTGSLGLDLALGVGGLPRGRI	61
NTDB id 1427 RS RS02760 WP 011000510.1	MEDG.....K..KAASMSAEKQKALAAALAAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRV	69
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRI	60
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRI	60
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRI	60
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRI	60
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKKBALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGRI	60
consensus	*** ** * **! *!* ** ** ** * ** **! **! **! **! **! **! **! *	

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NTDB id 269	KZH43	RS08665	WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFG	LIDGEEVSEQDTENKKDEPKK	...EE..AVNEE	VPLDLGDELEIEI	386	
NTDB id 228	SPD	RS09265	WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFG	LIDGEEVSEQDTENKKDEPKK	...EE..AVNEE	VPLDLGDELEIEI	386	
NTDB id 194	SPR	RS08825	WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFG	LIDGEEVSEQDTENKKDEPKK	...EE..AVNEE	VPLDLGDELEIEI	386	
NTDB id 159	SP	RS09750	WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFG	LIDGEEVSEQDTENKKDEPKK	...EE..AVNEE	VPLDLGDELEIEI	386	
NTDB id 499	SM12261	RS08315	WP 078228268.1	EKIGQGS	ENAKKYLADNPEIFDEIDHQVVRVQFGL	IDGEEIAES...KKDEAAQ...VD..SVNEE	VTLDLGDELEIEI	382		
NTDB id 527	SMSK321	RS11065	WP 001085454.1	EKIGQGS	ENAKKYLADNPEVFAEIDHQVVRVQFGL	IDGEEAAES...KKDEVAQ...VD..SVNEE	VTLDLGDELEIEI	382		
NTDB id 408	SMU	RS09530	WP 002262392.1	EKIGQGS	ENAKKFLADNPEIFDDIDHKVVRVQYGL	IEEDNTEEKQSSKEK...ET...DE..KADKNL	VLELDDTIELED	383		
NTDB id 453	Spy49	1753c	ACI62003.1	EKIGQGS	ENAKRYLADHPQLFDEIDRKVVRVKFGL	LEESEESAMAVASE...E.....TDD	LALDLNNGIEIED	378		
NTDB id 95616	LGMS210922A	RS01135	WP 074750715.1	EKIGQGA	EKAKAFLKDNPEIFNEIDRKVVRQNHGL	IEGDEADEKEEVKPA.KADEKAKVE..AAGVEE	IIELELE.....	383		
NTDB id 600	KW2	RS01765	WP 011675413.1	EKIGQGA	EAKAKNYLKEHQDVDFEIDHKVRAAHGL	LDDSEVAETEEETTASKTAKAKKEEKAVETEE	IIELELED.....	387		
NTDB id 625	LCA	RS02525	WP 011374196.1	ERIGQG	RENAKNYLADHEDVEDEVRLKVRRAAYG	ISDVPEEDLPTTEDE.Q.....INILPDD	STEE..	355		
NTDB id 115	BSU	16940	NP 389576.2	ERLGGG	RENAKQFLKENKDIIMLMIQEQIREHYGL	DNNGVVQQQAEEETQEE.....LEFE.E.....		348		
NTDB id 1313	DR	RS12030	WP 010888966.1	ERIGQG	KEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGE	APALAPAPAAPEAAEA.....		363		
NTDB id 1245	Cj1673c	YP 002345041.1		KKLGGG	RENSKAFLEKENPEIADEITKAIQNSMGI	EGMI....SGSEDD..EGEE.....		343		
NTDB id 1214	NCTC11637	00359	SQJ03206.1	KKLGGG	RENAKALLKEDKALADEITLKIKESIGSNEEI	....MPLPDE..PLEEM.....E.....		347	
NTDB id 1211	C694	RS00795	WP 000963128.1	KKLGGG	RENAKALLKEDKALADEITLKIKESIGSNEEI	....MPLPDE..PLEEM.....E.....		347	
NTDB id 1334	RAOC	RS04870	WP 004918236.1	TKLGGG	RDTVKELTKDNPELAELEAKIREKLQAK	.....		343	
NTDB id 1389	A4U84	RS07560	WP 021112712.1	TKIGQG	KNNAVKWLKENPEIADKLEQEIRNTLASNPNS	....VLKATASDSNDES.....DVEEFSEEL....		372	
NTDB id 1130	NGFG	RS03960	WP 003688695.1	AKIGQG	KDNVRVWLKENPEISDEIDAKIRALNGVEMHI	....TEGTQDETGER.....PEE.....		348	
NTDB id 1124	NGFG	RS03960	WP 003688695.1	AKIGQG	KDNVRVWLKENPEISDEIDAKIRALNGVEMHI	....TEGTQDETGER.....PEE.....		348	
NTDB id 1123	OK783	RS03845	WP 003688695.1	AKIGQG	KDNVRVWLKENPEISDEIDAKIRALNGVEMHI	....TEGTQDETGER.....PEE.....		348	
NTDB id 1427	RS	RS02760	WP 011000510.1	ERIGQG	RDNCRREFLRENAELAREIENKVRHLGVTPMG	....AVTLA.EEVEED.....		352	
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	DKIGQG	KANACKYLLKENPEIAKTLDKKLREMLLNPNEM	....QLIAETSSAADDV.....EFGAVPEEF....		354	
NTDB id 1142	GTF74	RS11550	WP 000344154.1	DKIGQG	KANACKYLLKENPEIAKTLDKKLREMLLNPNEM	....QLIAETSSAADDV.....EFGAVPEEF....		354	
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	NKIGQG	KNNVIRYLEENPQISTEIEAVIREQLLTKASD	....QTAA.HDETEEEP.....DLL..ES.....		349	
NTDB id 1074	ABD1	RS10195	WP 000344167.1	NKIGQG	KNNVIRYFEENNQIAEEIERNIREQLLTTGTN	....GAVQ.I.EDEEEP.....DLL..LES.....		349	
NTDB id 1205	PSJM300	05545	AFN77183.1	SKIGQG	KANAACKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.....DI.....		347		
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			EE	
NTDB id 269	KZH43 RS08665 WP 001085462.1	EE	388	
NTDB id 228	SPD RS09265 WP 001085462.1	EE	388	
NTDB id 194	SPR RS08825 WP 001085462.1	EE	388	
NTDB id 159	SP RS09750 WP 001085462.1	EE	388	
NTDB id 499	SM12261 RS08315 WP 078228268.1	EE	384	
NTDB id 527	SMSK321 RS11065 WP 001085454.1	EE	384	
NTDB id 408	SMU RS09530 WP 002262392.1	..	383	
NTDB id 453	Spy49 1753c ACI62003.1	..	378	
NTDB id 95616	LGMS210922A RS01135 WP 074750715.1	..	383	
NTDB id 600	KW2 RS01765 WP 011675413.1	..	387	
NTDB id 625	LCA RS02525 WP 011374196.1	..	355	
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 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 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

- X non conserved
- X similar
- X ≥ 50% conserved