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NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPKGR	60
NTDB id 363955 FE337 RS02975 WP 004636634.1	MVS EERQKALDKALKNIEKNFGKGSIMKMG EK.VDTEVRSVPSSGSLALDV ALGIGGYPKGR	60
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPKGR	58
NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGEA.ANQKVS VSSGSLALDTALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDTALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDTALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDTALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDTALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDTALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDTALGSGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFGDERKKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDTALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFGDERRKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDTALGAGGYPKGR	73
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPKGR	72
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKSLDKTTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKATISLAIKQIDKVF GK GALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKATISLAIKQIDKVF GK GALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIIEVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPKGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDLALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDLALGAGGLPMGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDLALGIGGLPKGR	59
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NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGREN	AKNYLADHEDVEDEVRLKVR	AAYGISDVPEEDLPTT	...EDEQ	INIL	.PDDSTEE	355	
NTDB id 363955 FE337 RS02975 WP 004636634.1	EERLGQGGREN	AKFLEENLEIRKEIDRKVRLAYGV	IDEEEFERLQQLAAERAEQ	ASEL	EVDEEIEET	361		
NTDB id 115 BSU 16940 NP 389576.2	EERLGQGGREN	AKQFLKENKDIMLMIQEQUIREHYGL	DNNGVVQQQAE	ET	QEELEFEE	348		
NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGAEK	AKNYLKEHQDVFDEIDHKVRAAHGL	LDDSEVAETEEETTASKTAKAKKEEKAVETEEIELELED	.....	387			
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGL	LIDGEEVSEQDTENKKDE	...PKKEEA	..VNEEVPLDLGDELEIE	385		
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGL	LIDGEEVSEQDTENKKDE	...PKKEEA	..VNEEVPLDLGDELEIE	385		
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGL	LIDGEEVSEQDTENKKDE	...PKKEEA	..VNEEVPLDLGDELEIE	385		
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGL	LIDGEEVSEQDTENKKDE	...PKKEEA	..VNEEVPLDLGDELEIE	385		
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLADNPEIFDEIDHQVRVQFGL	LIDGEEIAES	...KKDE	...AAQVDS	..VNEEVTLDLGDELEIE	381	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLADNPEVFAEIDHQVRVQFGL	LIDGEEAAES	...KKDE	...VAQVDS	..VNEEVTLDLGDELEIE	381	
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIFDDIDHKVRVQYGL	IEEDNTEEKQSSKEK	ETDEK	..ADKNLVLELDDTIELE	382		
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLFDEIDRKVRVKFGL	LEESEEEESAMAVASE	E	TDDLALDL	LDNGIEIE	377	
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGKEK	TIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAE	A	.....	363			
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGGRENS	KAFLKENPEIAD EITKAIQNSMGIEGMI	SGSEDDE	..GE	E	.....	343	
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGGREN	AKALLKEDKALADEITLKIKESIGSNEEI	MPLPDEP	..LE	EME	.....	347	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGGREN	AKALLKEDKALADEITLKIKESIGSNEEI	MPLPDEP	..LE	EME	.....	347	
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGRD	TVKELIKDNPELAELEAKIREKLQAK	.....	.....	343			
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGGKNN	AVKWLKENPEIADKLEQEIRNTLASNPNS	VLKATASDSND	ESD	VVEEFS	EEE	371	
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGGKDN	VRVWLKENPEISDEIDAKIRALNGVEMHI	TEGTQDETD	GERPEE	348			
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGGKDN	VRVWLKENPEISDEIDAKIRALNGVEMHI	TEGTQDETD	GERPEE	348			
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGGKDN	VRVWLKENPEISDEIDAKIRALNGVEMHI	TEGTQDETD	GERPEE	348			
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGRDNC	REFLRENAELAREIENKVREHLGVTPMG	AV	TLAEEVEE	D	.....	352	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGGKAN	ACKYLLKENPEIAKTLDDKKLREMLLNPENM	QLIAETSSAAD	DVEFGAVP	EEF	354		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGGKAN	ACKYLLKENPEIAKTLDDKKLREMLLNPENM	QLIAETSSAAD	DVEFGAVP	EEF	354		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGGKNN	VIRYFEENNQIAEEIERNIREQLLTGTN	GAVQ	..I	EDEE	EPD	..LLES	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGGKNN	VIRYLEENPQISTEIEAVIREQLLTKASD	QTAA	..HDETEE	EPD	..LLES	349	
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGGKAN	AAKYLLKENPEIGQEIEQQIRAKLLVTSAN	TKATPVAEDLA	DAD	..I		347	
consensus	***!!!*****	**	*****	*****	**	**	*	*

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NTDB id 625 LCA RS02525 WP 011374196.1		355
NTDB id 363955 FE337 RS02975 WP 004636634.1	EDNTSADE	369
NTDB id 115 BSU 16940 NP 389576.2	.....	348
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 408 SMU RS09530 WP 002262392.1	D.....	383
NTDB id 453 Spy49 1753c ACI62003.1	D.....	378
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	L.....	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 1074 ABD1 RS10195 WP 000344167.1	.....	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	.....	347
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved