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NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAK	ERSKATET	AMSQ	IEKAFGKGSIMKLGAE	.SKLDVQVVSTGSLSLDLALGVGGIPRGR	72		
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59				
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKAI	SLAIKQ	IDKVF	FGKALVRLGDK	.QVEKIDAI	STGSLGLDLALGIGGVPKGR	61	
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKAI	SLAIKQ	IDKVF	FGKALVRLGDK	.QVEKIDS	ISTGSLGLDLALGIGGVPKGR	61	
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPND	DKKALA	AAVLEK	LDKTYGKGTVMKLG	GTVDHNI	EVIPSGSLGLDLALGVGGYPKGR	68	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	..MAENKKS	SKNNTV	..VKQVEPEQ	KKQALEA	ALAQ	IEKQFGKGSIMKLGQT	.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAA	ALAQ	IEKSF	FGKGAIMKMDGSQ	QEENLE	IVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAA	ALAQ	IEKSF	FGKGAIMKMDGSQ	QEENLE	IVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSD	DKSKALAA	ALAQ	IEKSF	FGKGAIMKMDGSQ	QEENLE	IVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSA	EKQKALA	AAALAQ	IEKQFGKGSIMKMGDA	.EVEPVQVVSTGSLGLD	VALGVGGLPKGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALA	AAALGQ	IEKQFGKGSIMRLGDN	.RAMDVETISTGSLSLD	I	ALGAGGLPMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALA	AAALGQ	IEKQFGKGSIMRLGDN	.RAMDVETISTGSLSLD	I	ALGAGGLPMGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKQRALA	AAALGQ	IEKQFGKGA	VMRMGDH	.DRQAIP	ISTGSLGLDIALGIGGLPKGR	59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKS	KALQAALSQ	IEKQFGKNTVMRLGDN	.TVQAVEAVSTGSLTLD	I	ALGIGGLPKGR	59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKS	KALQAALSQ	IEKQFGKNTVMRLGDN	.TVQAVEAVSTGSLTLD	I	ALGIGGLPKGR	59	
NTDB id 1044721 AB8077 RS09925 WP 012492055.1	.MAKKT...AKNDNTKSDAT	DRDTELEKAL	QKIKKAFGEGAVMKMGDR	.PELKVDV	VSTGILSLDLALGVGGLPKGR	73		
NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKKT...NFDDITKKYGA	ERDKALAD	ALALIEKDFGKGSIMRLG	EA	.ANQKVSVVSSGSLALD	I	ALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKPK....KLEEISKKFGA	EREKALND	ALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKPK....KLEEISKKFGA	EREKALND	ALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKPK....KLEEISKKFGA	EREKALND	ALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKPK....KLEEISKKFGA	EREKALND	ALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKPK....KLDEISKKFGA	EREKALND	ALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKPK....KLDEISKKFGA	EREKALND	ALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKLK....KNEEITKKFGD	ERRKALDD	ALKNIEKDFGKGA	VMLGER	.AEQKVQVMSSGSLALD	I	ALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRIK....KTEEITKKFGD	ERRKALDD	ALKNIEKDFGKGA	VMLGER	.AEQKVQVMSSGSLALD	I	ALGAGGYPKGR	73
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKD	ERQAALDA	ALKKIEKNFGKGSIMRMGEK	.VDTQVSTVSSGSLALDE	ALGVGGYPKGR	60		
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDM	ALKQIEKQFGKGSIMKLG	EK	.TDTRISTVPSGSLALD	TALGIGGYPKGR	58		
consensus		** **	**	**!	*!*****	*	***!***!***!***!***!***!	







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NTDB id 1313 DR RS12030 WP 010888966.1	YSYGDERIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	FSYKDKKLGQGRENSKAFLENPEIADKLEIIRNTLASNPNS.....VLKATASDSNDESVDVEE..FSEEEL.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LSYQDKKLGQGRENAKALLKEDKALADEITLKI KESIGSNEEI.....MPLPDEP..LEEME.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	LSYQDKKLGQGRENAKALLKEDKALADEITLKI KESIGSNEEI.....MPLPDEP..LEEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	FSYQDTKLGQGRDITVKELIKDNPELAELEAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	FSYDGTKIGQGGKNNVAVKWLKENPEIADKLEIIRNTLASNPNS.....VLKATASDSNDESVDVEE..FSEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	YSYNGAKIGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGT.....QDET DGE..RPEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	YSYNGAKIGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGT.....QDET DGE..RPEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	YSYNGAKIGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGT.....QDET DGE..RPEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	YSYNGERIGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGT.....QDET DGE..RPEE.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	YSYNGDKIGQGGKANACKYLKENPEIAKTLDKKLRREMLLNPNEM.....QLIAETSSAADDVEFGA..VPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	YSYNGDKIGQGGKANACKYLKENPEIAKTLDKKLRREMLLNPNEM.....QLIAETSSAADDVEFGA..VPEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	YAYKGSKIGQGGKANAAKYLEENPEIGQEIEQQIRAKLLVTSAN.....TKATPVAEDLADADI.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	YSYQGNKIGQGGKNNVIRYFEENNQIAEIEIERNIREQLLTTGTN.....GAVQ.I.EDEE EEPDLL...LES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	YSYQGNKIGQGGKNNVIRYFEENNQIAEIEIERNIREQLLTTGTN.....GAVQ.I.EDEE EEPDLL...LES.....	349
NTDB id 1044721 AB8077 RS09925 WP 012492055.1	YNYGKERLGQGLVNASHYLDEHPEISKEIEEKIREQVAPKKPEETDEKQDDKDDQASADKKSSENTTTTDTTEKKADKKDD	387
NTDB id 600 KW2 RS01765 WP 011675413.1	FAYNDEKIGQGAEKAKNYLKEHQDVDFEIDHKVRAAHGLDDSEVAETEEETTASHTKAKAKKEEKAVETEEIELE.LED	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	YSYKDEKIGQGSNAKKYLAHPEIFDEIDKQVRSKFGGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLD.LGD	380
NTDB id 228 SPD RS09265 WP 001085462.1	YSYKDEKIGQGSNAKKYLAHPEIFDEIDKQVRSKFGGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLD.LGD	380
NTDB id 194 SPR RS08825 WP 001085462.1	YSYKDEKIGQGSNAKKYLAHPEIFDEIDKQVRSKFGGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLD.LGD	380
NTDB id 159 SP RS09750 WP 001085462.1	YSYKDEKIGQGSNAKKYLAHPEIFDEIDKQVRSKFGGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLD.LGD	380
NTDB id 499 SM12261 RS08315 WP 078228268.1	YSYKDEKIGQGSNAKKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAES...KKDE...AAQVDS..VNEEVTL D.LGD	376
NTDB id 527 SMSK321 RS11065 WP 001085454.1	YSYKDEKIGQGSNAKKYLADNPEVFAEIDHQVVRVQFGLIDGEEAAES...KKDE...VAQVDS..VNEEVTL D.LGD	376
NTDB id 453 Spy49 1753c ACI62003.1	FSYNGEKIGQGSNAKKRYLADHPQLFDEIDRKRVRVKFGLLEESEESAMAVASE.....E.....TDDLALD.LDN	372
NTDB id 408 SMU RS09530 WP 002262392.1	YSYNGEKIGQGSNAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLE.LDD	377
NTDB id 625 LCA RS02525 WP 011374196.1	YSYGSEIRIGQGRENAKNYLADHEDVEDEVRLKVRRAAYGISDVPPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
NTDB id 115 BSU 16940 NP 389576.2	YSYEEEEKIGQGRENAKQFLKENKDIMLMIQEQLREHYGLDNNGVVQQQAETQEEL.EFE.E.....	348
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	ELEIEEE	
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 1205 PSJM300 05545 AFN77183.1	.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....	349
NTDB id 1044721 AB8077 RS09925 WP 012492055.1	PASFGVDRLV	397
NTDB id 600 KW2 RS01765 WP 011675413.1	.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	ELEIEIEE..	388
NTDB id 228 SPD RS09265 WP 001085462.1	ELEIEIEE..	388
NTDB id 194 SPR RS08825 WP 001085462.1	ELEIEIEE..	388
NTDB id 159 SP RS09750 WP 001085462.1	ELEIEIEE..	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	ELEIEIEE..	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	ELEIEIEE..	384
NTDB id 453 Spy49 1753c ACI62003.1	GIEIED....	378
NTDB id 408 SMU RS09530 WP 002262392.1	TIELED....	383
NTDB id 625 LCA RS02525 WP 011374196.1	.....	355
NTDB id 115 BSU 16940 NP 389576.2	.....	348

consensus

non conserved  
 similar  
 ≥ 50% conserved