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NTDB id 115 BSU 16940 NP 389576.2MSDRQAALDMALKQIEKQFGKGSIMKLG EK .TDTRIISTVPSGSLALDTALGIGGYPKGR	58
NTDB id 356054 E4Z98 RS08270 WP 135254224.1	.....MADDRKVALDAALKKIEKNFGKGSIMKLG EK .VDTQISTVSSGSLALDVALGVGGYPKGR	59
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMG EK .VDTQVSTVSSGSLALDEALGVGGYPKGR	60
NTDB id 600 KW2 RS01765 WP 011675413.1	MATK.....KKTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLG EA .ANQKVSIVSSGSLALDTALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLG ER .AEQKVQVMSSGSLALDTALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLG ER .AEQKVQVMSSGSLALDTALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLG ER .AEQKVQVMSSGSLALDTALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLG ER .AEQKVQVMSSGSLALDTALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLG ER .AEQKVQVMSSGSLALDTALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLG ER .AEQKVQVMSSGSLALDTALGSGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK.....RIKKTEEITKKFGDERKKALDDALKNIEKD FGKGAVMRLG ER .AEQKVQVMSSGSLALDTALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAK.....KLKKNEEITKKFGDERRKALDDALKNIEKD FGKGAVMRLG ER .AEQKVQVMSSGSLALDTALGAGGYPKGR	73
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAM SQ IEKAFGKGSIMKLG AE .SKLDVQVVSTGSLSLDLALGVGGIPKGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKTFGKGTILRLGDK .EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLA IKQ IDKVF GKGALVRLGDK .QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLA IKQ IDKVF GKGALVRLGDK .QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT .ETTSPNDDKKKALAAVLEK LDKTYGKGTVMKLG DGTVDHNIIEVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTV .VKQVEPEQKKQALEAALAQ IEKQFGKGSIMKLG QT .EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQ IEKSF GKGAIMKMDGSQ QEENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQ IEKSF GKGAIMKMDGSQ QEENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQ IEKSF GKGAIMKMDGSQ QEENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K .KAASMSAEKQKALAAALAQ IEKQFGKGSIMKMG DA .EVEPVQVVSTGSLGLDVALGVGGLPKGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQ IEKQFGKGSIMRLG DN .RAMDVETISTGSLSLDTALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQ IEKQFGKGSIMRLG DN .RAMDVETISTGSLSLDTALGAGGLPMGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQ IEKQFGKNTVMRLG DN .TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQ IEKQFGKNTVMRLG DN .TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKKBALAAALGQ IEKQFGKGAVMRMGDH .DRQAIPSI STGSLGLDIALGIGGLPKGR	59
consensus	*** ** * **! *!***** * ****!*!!*!!*!!*!!*!!*!!	

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NTDB id 115 BSU 16940 NP 389576.2	EERIGQGRENAKQFLKENKDIMLMIQEQTREHYGLDNNGVVQQQAEEETQEELE.....FEE.....	348
NTDB id 356054 E4Z98 RS08270 WP 135254224.1	EERMGGRENAKQFLLDNTEIMDEIYNVRSAYGIGNGAVTVTTEEVEEGLDLE.....I.....	347
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGRENAKKNYLADHEDVEDEVRLKVRRAAYGISDVPEEDLPTTED.EQIN.....ILPDDSTEE.	355
NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGAEKAKNYLKEHQDVDFEIDHKVRAAHGLLDDSEVAETEEETTASKTAKAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQD TENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQD TENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQD TENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQD TENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGSENAKKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAES....KKDE....AAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGSENAKKYLADNPEVFAEIDHQVVRVQFGLIDGEEAAES....KKDE....VAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGSENAKRYLADHPQLFDEIDRKVVRVKFGLLEESEEEESAMAVASE.....E.....TDDLALDLNGIEIE	377
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAE..A.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGRENSKAFLENPEIAD EITKAIQNSMGT EGM I....SGSEDDE..GE..E.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGRENAKALLKEDKALADEITLKI KESIGSNEEI....MPLPDEP..LE..EME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGRENAKALLKEDKALADEITLKI KESIGSNEEI....MPLPDEP..LE..EME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGRD TVKELTKDNPELA EEL EAK IREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGNNAVKWLKENPEIADKLEQEIRNTLASNPNS....VLKATASDSND..ESDVVEEFSEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQKDNVVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETD.....GERPEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQKDNVVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETD.....GERPEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQKDNVVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETD.....GERPEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGRDNCREFLRENAELAREIENKVRHHLGVTPMG....AV.TLAEEVEE..D.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGGKANACKYLKENPEIAKTLDKKLREMLLNPENM....QLIAETSSAAD..DVEFGAVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGGKANACKYLKENPEIAKTLDKKLREMLLNPENM....QLIAETSSAAD..DVEFGAVPEEF.....	354
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGNNVIRYFEENNQIAEEIERNIREQLLTTGTN....GAVQ.I.EDEE..EPD..LLES.....	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGNNVIRYLEENPQISTEIEAVIREQLLTKASD....QTAA.HDETEE..EPD..LLES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGGKANAAKYLEENPEIGQEIEQQIRAKLLVTSAN....TKATPVAEDLA..DAD..I.....	347
consensus	***!!!***** ** ***** ***** ** **	

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NTDB id 115 BSU 16940 NP 389576.2	...	348
NTDB id 356054 E4Z98 RS08270 WP 135254224.1	...	347
NTDB id 625 LCA RS02525 WP 011374196.1	...	355
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
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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