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NTDB id 115 BSU 16940 NP 389576.2MSDRQAALDMALKQIEKQFGKGSIMKLG EK . TDTRISTVPSGSLALDIALGIGGYPRGR	58
NTDB id 100190 ABWN74 RS12345 WP 002287328.1	.....MADDRKAALDAALKKIEKSYGKGSIMKLG EK . IDQQISTVPSGSLALDVALGVGGYPRGR	59
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRNG EK . VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 600 KW2 RS01765 WP 011675413.1	MATK.....KKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLG EA . ANQKVSVVSSGSLALDIALGAGGYPRGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLG ER . AEQKVQVMSSGSLALDIALGSGGYPRGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLG ER . AEQKVQVMSSGSLALDIALGSGGYPRGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLG ER . AEQKVQVMSSGSLALDIALGSGGYPRGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLG ER . AEQKVQVMSSGSLALDIALGSGGYPRGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLG ER . AEQKVQVMSSGSLALDIALGSGGYPRGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLG ER . AEQKVQVMSSGSLALDIALGSGGYPRGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAK.....KLKKNEEITKKFGDERRKALDDALKNIEKDFGKGA VMRLG ER . AEQKVQVMSSGSLALDIALGAGGYPRGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK.....RIKKTEEITKKFGDERKKALDDALKNIEKDFGKGA VMRLG ER . AEQKVQVMSSGSLALDIALGAGGYPRGR	73
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTD AKERSKATETAM SQ IEKAFGKGSIMKLG AE . SKLDVQVVSTGSLSLDIALGVGGI PRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDENKRRKSLDAALKSLDKTFGKCTILRLGDK . EVEQIDSTIGTGSVGLDIALGIGGYPRGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATSLATKQIDKVFHGKALVRLGDK . QVEKIDASTGSLGLDIALGIGGYPRGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATSLATKQIDKVFHGKALVRLGDK . QVEKIDASTGSLGLDIALGIGGYPRGR	61
NTDB id 1334 RA0C RS04870 WP 004918236.1	.....MAKT..ETTSPND DKKALAAVLEKLDKTYGKGTVMKLG D GTVDHNLEVI PS GSLGLDIALGVGGYPRGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS KNNTV . VKQVEPEQKQKALEAALAQIEKQFGKGSIMKLG QT . EQLDIESVSTGSLGLDIALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFHGKAIMKMDGSQQEENLEVI STGSLGLDIALGVGGI PRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFHGKAIMKMDGSQQEENLEVI STGSLGLDIALGVGGI PRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFHGKAIMKMDGSQQEENLEVI STGSLGLDIALGVGGI PRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K . KAASMSAEKQKALAAALAQIEKQFGKGSIMKMG DA . EVEPVQVVSTGSLGLDIALGVGGI PRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLG DN . RAMDVETI STGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLG DN . RAMDVETI STGSLSLDIALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLG DN . TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLG DN . TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRFALAAALGQIEKQFGKGA VMRMDH . DRQAIPSI STGSLGLDIALGIGGLPKGR	59
consensus	*** ** * ** ! * ! ! * * * * * * * * * * * * * * ! ! ! ! ! * ! !	

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NTDB id 115 BSU 16940 NP 389576.2	EERIGQGRENAKQFLKENKDIIMLMIQEQIREHYCIDMNGVVQQQAEETQEEL.....EFEE.....	348
NTDB id 100190 ABWN74 RS12345 WP 002287328.1	EDRIGQGRENAKIYMANHPEMMAEVSALVRAAYCIGEEVAVPEDEKQ.QEEL.....PLVEE.....	349
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGRENAKNYLADHEDVEDEVRLKVR AAYCISDVPEEDLPTE.DEQI.....NILPDDSTEE..	355
NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQCAEKAKNYLKEHQDVFEIDHKVRAAHCILDDSEVAETEEETTASKTAKAKKKEEKAVETEEIELELED....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILDGEEVSEQDTEENKKDE....PKKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILDGEEVSEQDTEENKKDE....PKKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILDGEEVSEQDTEENKKDE....PKKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILDGEEVSEQDTEENKKDE....PKKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGSSENAKKYLADNPEVFAEIDHQVRVQFCILDGEEAAE....SKKDE....VAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGSSENAKKYLADNPEIFDEIDHQVRVQFCILDGEEIAE....SKKDE....AAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGSSENAKRYLADHPQLFDEIDRKVRVKFCILEESEESAMAVASE.....E.....TDDLALDLNGIEIE	377
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGSSENAKKFLADNPEIFDDIDHKVRVQYCIIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGKEKTIAYIAERPEMEQEIRDRVMAATRAGNAGEAPALAPAPAAPEAAAAE.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKIGQGRENSKAEIKENPEIAD EITKATQNSMCI EGMI....SGSEDD..EGEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKIGQGRENAKALLKEDKALADEITLKI KESIC SNEEI....MPLPDE..PLEEM.....E.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKIGQGRENAKALLKEDKALADEITLKI KESIC SNEEI....MPLPDE..PLEEM.....E.....	347
NTDB id 1334 RA0C RS04870 WP 004918236.1	DTKIGQGRD TVKELTKDNPEIAEELAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGKNNAVVKWLKENPEIADKLEQEI RNTLASNPNS....VLKATASDSNDES.....DVEEFSEEEEL...	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQKDNVRVWLKENPEISDEIDAKI RALNCVEMHI....TEGTQDETDGER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQKDNVRVWLKENPEISDEIDAKI RALNCVEMHI....TEGTQDETDGER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQKDNVRVWLKENPEISDEIDAKI RALNCVEMHI....TEGTQDETDGER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGRDNCREELRENAEILAREI ENKVRHLGVTPMG....AVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGGKANACKY LKENPEIAKTLDKKLREMLLNPENM....QLIAETSSAADDV.....EFGAVPEEF....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGGKANACKY LKENPEIAKTLDKKLREMLLNPENM....QLIAETSSAADDV.....EFGAVPEEF....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQCKNNVIRYLEENPCISTEIEAVI REQLLTKASD....QTAA.HDETEEEP.....DLL..ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQCKNNVIRYFEENNCIAEIEIERNI REQLLTTGTN....GAVQ.I.EDEEEP.....DLL..LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGGKANA AKYLEENPEIGQEIEQQI RAKLLVTSAN....TKATPVAEDLADA.....DI.....	347
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NTDB id 115 BSU 16940 NP 389576.2      ... 348
NTDB id 100190 ABWN74 RS12345 WP 002287328.1 ... 349
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 527 SMSK321 RS11065 WP 001085454.1 IEE 384
NTDB id 499 SM12261 RS08315 WP 078228268.1 IEE 384
NTDB id 453 Spy49 1753c ACI62003.1       D.. 378
NTDB id 408 SMU RS09530 WP 002262392.1   D.. 383
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 ... 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
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 ≥ 50% conserved