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NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK. TDTRISTVPSGSLALDIALGIGGYPRGR	58
NTDB id 1155065 QML80 RS00730 WP 047341284.1	.....MADDRKTALDAALKKIEKNFGKGSIMKLG EK. ADQQISTVPSGSLALDVALGVGGYPRGR	59
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMCHEK. VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 600 KW2 RS01765 WP 011675413.1	MATK.....KKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLG EA. ANQKVSVMSSGSLALDIALGAGGYPRGR	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 499 SM12261 RS08315 WP 078228268.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLG ER. AEQKVQVMSSGSLALDIALGSGGYPRGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.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 SQIEKAFGKGSIMKLG AE. SKLDVQVVSTGSLSLDIALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDENKRRKSLDAALKSLDKTFGKCTILRLGDK. EVEQIDSTIGTGSVGLDIALGIGGYPRGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATSLATKQIDKVFVGKCALVRLGDK. QVEKIDASTGSLGLDIALGIGGYPRGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATSLATKQIDKVFVGKCALVRLGDK. QVEKIDASTGSLGLDIALGIGGYPRGR	61
NTDB id 1334 RA0C RS04870 WP 004918236.1	.....MAKT..ETTSPND DKKALAAVLEKLDKTYGKGTVMKLG DGTVDHNLEVI PS GSLGLDIALGVGGYPRGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTV..VKQVEPEQKQKALEAALAQIEKQFGKGSIMKLG QT. EQLDIESVSTGSLGLDIALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVI STGSLGLDIALGVGGYPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVI STGSLGLDIALGVGGYPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVI STGSLGLDIALGVGGYPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMG DA. EVEPVQVVSTGSLGLDIALGVGGYPRGR	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 AFN77183.1	.....MDENKRFALAAALGQIEKQFGKGA VMRLG DH. DRQAIPSI STGSLGLDIALGIGGLPKGR	59
consensus	*** ** * ** ! * ! ! * * * * * * * * * * * * * * * * * * ! ! ! ! ! * ! !	







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NTDB id 115 BSU 16940 NP 389576.2	EERIGQGRENAKQFLKENKDIIMLMIQEQIREHYCIDMNGVVQQQAEETQEEL.....EFEE.....	348
NTDB id 1155065 QML80 RS00730 WP 047341284.1	GERIGQGRENVNKNYMKDHPMVSLELVKVRDAYCIDGDTTIEATEETEETQETL.....DLE.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGRENAKNYLADHEDVEDEVRLKVR AAYCISDVPEEDLPTT.EDEQI.....NILPDDSTEE..	355
NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQCAEKAKNYLKEHQDVFEIDHKVRAAHCILDDSEVAETEEETTASKTAKAKKKEEKAVETFEI	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILDGEEVSEQDTEENKKDE...PKKEEA..VNE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILDGEEVSEQDTEENKKDE...PKKEEA..VNE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILDGEEVSEQDTEENKKDE...PKKEEA..VNE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILDGEEVSEQDTEENKKDE...PKKEEA..VNE	385
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGSSENAKKYLADNPEIFDEIDHQVRVQFCILDGEEIAES...KKDE...AAQVDS..VNE	381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGSSENAKKYLADNPEVFAEIDHQVRVQFCILDGEEAAAES...KKDE...VAQVDS..VNE	381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGSSENAKRYLADHPQLFDEIDRKVRVKFCILEESEESAMAVASE.....E.....TDD	377
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGSSENAKKFLADNPEIFDDIDHKVVRVQFCILEEDNTEEKQSSKEK.....ETDEK..	382
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGKEKTIAYIAERPEMEQEIRDRVMAATRAGNAGEAPALAPAPAAPEA.....AEA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKIGQGRENSKAEFLKENPEIADKIKATQNSMCI EGMI...SGSEDD..E.....GEF.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKIGQGRENAKALLKEDKALADEITLKI KESICSNEEI...MPLPDE..P.....LEEME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKIGQGRENAKALLKEDKALADEITLKI KESICSNEEI...MPLPDE..P.....LEEME.....	347
NTDB id 1334 RA0C RS04870 WP 004918236.1	DTKIGQGRDITVKELTKDNPEIAEELAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGGKNNAVVKWLKENPEIADKLEQEI RNTLASNPNS...VLKATASDS.....NDESDVE..	371
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGGKDNVRVWLKENPEISDEIDAKI RALNCVEMHI...TEGTQDETD.....GER.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGGKDNVRVWLKENPEISDEIDAKI RALNCVEMHI...TEGTQDETD.....GER.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGGKDNVRVWLKENPEISDEIDAKI RALNCVEMHI...TEGTQDETD.....GER.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGRDNCREFLRENAEIAREIENKVR EHLGVTPMG...AVTLA..EEV.....EED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGGKANACKYLKENPEIAKTLDKKL REMPLLPENM...QLIAETSSA.....ADDVEFG..	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGGKANACKYLKENPEIAKTLDKKL REMPLLPENM...QLIAETSSA.....ADDVEFG..	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGGKNNVIRYLEENPCISTEIEAVI REQLLTKASD...QTAA.HDET.....EEDPDL	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGGKNNVIRYFEENPCIAEIEIERNI REQLLTTGTN...GAVQ.I.ED.....EEDPDL	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGGKANAAKYLEENPEIGQEIEQQI RAKLLVTSAN...TKATPVAED.....LADADI.....	347
consensus	**!!!***** ** * *** ***** ** ** *	

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NTDB id 115 BSU 16940 NP 389576.2      ... 348
NTDB id 1155065 QML80 RS00730 WP 047341284.1 ... 348
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 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 RA0C 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
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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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 non conserved  
 similar  
 ≥ 50% conserved