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NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK. TDTRISTVPSGSLALDIALGIGGYPRGR	58
NTDB id 1154937 QML79 RS01030 WP 016250398.1	.....MADDRKTALDAALKKIEKNFGKGSIMKLG EK. ADQQISTVPSGSLALDVALGVGGYPRGR	59
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMG 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 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	.....MSKDATKEISAPTDAKERSKATETAM SQIEKAFGKGSIMKLG AE. SKLDVQVVSTGSLSLDIALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDENKRRKSLDAALKSLDKTFGKGTILRLG DK. EVEQIDSTIGTGSVGLDIALGIGGVPRGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATSLATKQIDKVFHGKALVRLG DK. QVEKIDASTGSLGLDIALGIGGVPRGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATSLATKQIDKVFHGKALVRLG DK. QVEKIDASTGSLGLDIALGIGGVPRGR	61
NTDB id 1334 RA0C RS04870 WP 004918236.1	.....MAKT..ETTSPNDKKKALAAVLEKLDKTYGKGTVMKLG 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	.....MSDDKSKALAAALAQIEKSFHGKAIMKMDGSQQEENLEVI STGSLGLDIALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFHGKAIMKMDGSQQEENLEVI STGSLGLDIALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFHGKAIMKMDGSQQEENLEVI STGSLGLDIALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMG DA. EVEPVQVVSTGSLGLDVALGVGGLPRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLG DN. RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLG DN. RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDENKSKALQAALSQIEKQFGKN TVMRLG DN. TVQAVEAVSTGSLTLDIALGIGGLPRGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKN TVMRLG DN. TVQAVEAVSTGSLTLDIALGIGGLPRGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKRFALAAALGQIEKQFGKGA VMRMDH. DRQAIPSI STGSLGLDIALGIGGLPRGR	59
consensus	*** ** * *! *! *! *! *! *! *! *! *	







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NTDB id 115 BSU 16940 NP 389576.2	EERIGQGRENAKQFLKENKDIIMLMIQEQIREHYCIDMNGVVQQQAEETQEEL.....EFEE.....	348
NTDB id 1154937 QML79 RS01030 WP 016250398.1	GERIGQGRENVNKNYMKDHPMVSLELVKVRDAYCIDGDGTTIEATEETEETQETL.....DLE.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGRENAKNYLADHEDVEDEVRLKVR AAYCISDVPEEDLPTT.EDEQI.....NILPDDSTEE..	355
NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQCAEKAKNYLKEHQDVFEIDHKVRAAHCILDDSEVAETEETTASKTKAKAKKEEKAVETFEIELELED....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILDGEEVSEQDTEKNDKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILDGEEVSEQDTEKNDKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILDGEEVSEQDTEKNDKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILDGEEVSEQDTEKNDKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGSSENAKKYLADNPEIFDEIDHQVRVQFCILDGEEIAES...KKDE...AAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGSSENAKKYLADNPEVFAEIDHQVRVQFCILDGEEAAAES...KKDE...VAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGSSENAKRYLADHPQLFDEIDRKVRVKFCILEESEEEESAMAVASE.....E.....TDDLALDLNGIEIE	377
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGSSENAKKFLADNPEIFDDIDHKVVRVQFCILEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGKEKTIAIYIAERPEMEQEIRDRVMAATRAGNAGEAPALAPAPAAPEA.....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 RAOC RS04870 WP 004918236.1	DTKIGQGRDITVKELTKDNPEIAEELAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGGKNNAVVKWLKENPEIADKLEQEI RNTLASNPNS...VLKATASDS.....NDES DVE..EFSEEE	371
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGGKDNVRVWLKENPEISDEIDAKI RALNCVEMHI...TEGTQDETD.....GER.....PEE..	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGGKDNVRVWLKENPEISDEIDAKI RALNCVEMHI...TEGTQDETD.....GER.....PEE..	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGGKDNVRVWLKENPEISDEIDAKI RALNCVEMHI...TEGTQDETD.....GER.....PEE..	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGRDNCREFLRENAEIAREIENKVR EHLGVTPMG...AVTLA.EEV.....EED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGGKANACKYLKENPEIAKTLDK KILREMLLNPNEM...QLIAETSSA.....ADDVEFG..AVPEEF	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGGKANACKYLKENPEIAKTLDK KILREMLLNPNEM...QLIAETSSA.....ADDVEFG..AVPEEF	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGGKNNVIRYLEENPCISTEIEAVI REQLLTKASD...QTAA.HDET.....EEDPDL...ES..	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGGKNNVIRYFEENPCIAEIEIERNI REQLLTTGTN...GAVQ.I.ED.....EEDPDL...LES..	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGGKANAAKYLEENPEI GQEIQQI RAKLLVTSAN...TKATPVAED.....LADADI.....	347
consensus	**!!!***** ** * *** ***** ** ** *	

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NTDB id 115 BSU 16940 NP 389576.2      ... 348
NTDB id 1154937 QML79 RS01030 WP 016250398.1 ... 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 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