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NTDB id 1313 DR RS12030 WP 010888966.1	IYGPESGKTTLALAIYVQAQKAGGTCAFIDAEHALDPVYARALGVMNDELLV	SQPDN	GEQALEI	MELLV	RS	GAID	VVV	155
NTDB id 1245 Cj1673c YP 002345041.1	IYGPESGKTTLTLHIIAECQKAGGVC	AFIDAEHALDVKYAKNLGVM	TDLLV	SQPDF	GEQALEI	VEETL	ARSGAVDL	142
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IYGPESGKTTLSLHIIAECQKNGGVC	AFIDAEHALDVHYAKRLGVD	TENLLV	SQPD	GEQALEI	LETIT	TRSGGIDL	144
NTDB id 1211 C694 RS00795 WP 000963128.1	IYGPESGKTTLSLHIIAECQKNGGVC	AFIDAEHALDVHYAKRLGVD	TENLLV	SQPD	GEQALEI	LETIT	TRSGGIDL	144
NTDB id 1334 RAOC RS04870 WP 004918236.1	IYGPESGKTTLTLHAIYAEAKVGGTAA	AFIDAEHALDFDMHYAEKLG	MLELLV	SQPDN	GEQALEI	ADSL	TRSGGVD	151
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IYGPESGKTTLTLSLIAQAQKGNKTC	AFIDAEHALDPVYARMLGVM	DELLV	SQPDN	GEQALEI	CDAL	VRSGAVD	159
NTDB id 1130 NGFG RS03960 WP 003688695.1	IFGPESGKTTLCLEAVYQQKNGGVC	AFVDAEHALDFPVYARKLG	VKVEEL	YL	SQPD	GEQALEI	CDTL	143
NTDB id 1124 NGFG RS03960 WP 003688695.1	IFGPESGKTTLCLEAVYQQKNGGVC	AFVDAEHALDFPVYARKLG	VKVEEL	YL	SQPD	GEQALEI	CDTL	143
NTDB id 1123 OK783 RS03845 WP 003688695.1	IFGPESGKTTLCLEAVYQQKNGGVC	AFVDAEHALDFPVYARKLG	VKVEEL	YL	SQPD	GEQALEI	CDTL	143
NTDB id 1427 RS RS02760 WP 011000510.1	IYGPESGKTTLTLQVVAEMQKLG	GTCAFIDAEHALDVTYADKLG	VKVPD	LL	SQPD	GEQALEI	ADAL	151
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IFGPESGKTTLLELIIAAQRE	GKTCAFIDAEHALDPVYAKKLG	VNDELLV	SQPD	GEQALEI	CDAL	ARSGAVD	142
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IFGPESGKTTLLELIIAAQRE	GKTCAFIDAEHALDPVYAKKLG	VNDELLV	SQPD	GEQALEI	CDAL	ARSGAVD	142
NTDB id 1205 PSJM300 05545 AFN77183.1	IYGPESGKTTLTLSVIAAAQRM	GSTCAFVDAEHALDPDYAGKLG	VNDDLLV	SQPD	GEQALEI	TDML	VR	142
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IYGPESGKTTMTLQAIYAQQKAGG	TCAFIDAEHALDPQYARKLG	VDIDNLLV	SQPD	HGEQALEI	ADML	VRSGAIDL	142
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IYGPESGKTTMTLQAIYAQQKAGG	TCAFIDAEHALDPQYARKLG	VDIDNLLV	SQPD	NGEQALEI	ADML	VRSGAIDL	142
NTDB id 1160012 Q4I17 RS12745 WP 097793110.1	VYGPESGKTTLALHIIAEEAQQK	GGVAFIDVEHALDPVYAEALG	VNDINLLV	SQPD	GEQAMEI	CEAL	VRSGAIDA	158
NTDB id 600 KW2 RS01765 WP 011675413.1	IYGPESGKTTVALHAVAQVQKE	GGIAAFIDAEHALDPYAKALG	VNDELLV	SQPD	YGEQGL	QIAEKL	ITSGAVD	157
NTDB id 269 KZH43 RS08665 WP 001085462.1	IYGPESGKTTVALHAVAQAQKE	GGIAAFIDAEHALDPAYAAALG	VNDELLV	SQPD	S	GEQGLEI	AGK	156
NTDB id 228 SPD RS09265 WP 001085462.1	IYGPESGKTTVALHAVAQAQKE	GGIAAFIDAEHALDPAYAAALG	VNDELLV	SQPD	S	GEQGLEI	AGK	156
NTDB id 194 SPR RS08825 WP 001085462.1	IYGPESGKTTVALHAVAQAQKE	GGIAAFIDAEHALDPAYAAALG	VNDELLV	SQPD	S	GEQGLEI	AGK	156
NTDB id 159 SP RS09750 WP 001085462.1	IYGPESGKTTVALHAVAQAQKE	GGIAAFIDAEHALDPAYAAALG	VNDELLV	SQPD	S	GEQGLEI	AGK	156
NTDB id 499 SM12261 RS08315 WP 078228268.1	IYGPESGKTTVALHAVAQAQKE	GGIAAFIDAEHALDPAYAAALG	VNDELLV	SQPD	S	GEQGLEI	AGK	156
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IYGPESGKTTVALHAVAQAQKE	GGIAAFIDAEHALDPAYAAALG	VNDELLV	SQPD	S	GEQGLEI	AGK	156
NTDB id 408 SMU RS09530 WP 002262392.1	IYGPESGKTTVALHAVAQAQK	GGIAAFIDAEHALDPAYAAALG	VNDELLV	SQPD	S	GEQGLEI	AGK	156
NTDB id 453 Spy49 1753c ACI62003.1	IYGPESGKTTVALHAVAQAQKE	GGIAAFIDAEHALDPAYAAALG	VNDELLV	LAQPD	S	GEQGLEI	AGK	156
NTDB id 115 BSU 16940 NP 389576.2	VYGPESGKTTVALHAIYAEVQQ	QGGQAAFIDAEHALDPVYAQK	LGVMDELLV	SQPD	GEQALEI	AHAL	VRSGAVD	141
NTDB id 625 LCA RS02525 WP 011374196.1	IYGPESGKTTVALHAVAQVQK	GGTAAYIDAEHALDPKYATA	LGVMDDLLV	SQPD	T	GEQGLEI	ADAL	143
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NTDB id 1313 DR RS12030 WP 010888966.1	IGQCKEKTIAVIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPA.....APEAAEA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	LGQGRENSKAFLEKENPEIADDEITKAIQNSMCI EGMISGSSEDDE..GEE.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LGQGRENAKALLKEDKALADEITLKI KESIGSNEEIMPLPDEP..LEEME.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	LGQGRENAKALLKEDKALADEITLKI KESIGSNEEIMPLPDEP..LEEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	LGQGRD TVKELTKDNPEIAEELAKT REKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IGQCKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDES DVE..EFSE.....EEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	IGQCKDNVVRVWLKENPEISDEIDAKTIRALNCVEMHITEGT.....QDET DG..ERPE.....E.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	IGQCKDNVVRVWLKENPEISDEIDAKTIRALNCVEMHITEGT.....QDET DG..ERPE.....E.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	IGQCKDNVVRVWLKENPEISDEIDAKTIRALNCVEMHITEGT.....QDET DG..ERPE.....E.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	IGQGRDNCREFLRNAAELAREIENKVR EHLGVTPMGAV..TLAEEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IGQCKANACKY LKENPEIAKTLDKKIREMLLN PENMQLIAETSSAADDVEFG..AVPE.....EF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IGQCKANACKY LKENPEIAKTLDKKIREMLLN PENMQLIAETSSAADDVEFG..AVPE.....EF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	IGQCKANA AKYLEENPEIGQEIEQQI RAKLLVTSANTKATPVAEDLADADI.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IGQCKNNVIRYLEENPQISTEIEAVI REQLLTKASDQTAA..HDETEEEP DLL...ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IGQCKNNVIRYFEENQIAEIEIRNIREQ LLLTTGTNGAVQ..I..EDEEE PDLL...LE.....S.....	349
NTDB id 1160012 Q4I17 RS12745 WP 097793110.1	LGQGRD NAKQFLRDNPELANDIEGQIR ANADKLYATRR TAKAAAAAPDAGSKAESAPAKEPV..VK..APVRSSE SELDIM	390
NTDB id 600 KW2 RS01765 WP 011675413.1	IGQCAEKAKNYLKEHQDV FDEIDHKVRAAHC I LDDSEVAETEEETTA...SKTKAKAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IGQGS ENAKKYLAEHP EIFDEIDKQVRSKFC I IDGEEVSEQDTENKK...DE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	IGQGS ENAKKYLAEHP EIFDEIDKQVRSKFC I IDGEEVSEQDTENKK...DE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	IGQGS ENAKKYLAEHP EIFDEIDKQVRSKFC I IDGEEVSEQDTENKK...DE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	IGQGS ENAKKYLAEHP EIFDEIDKQVRSKFC I IDGEEVSEQDTENKK...DE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 499 SM12261 RS08315 WP 078228268.1	IGQGS ENAKKYLADNPEIFDEIDHQVRVQFC I IDGEEIAES...KK...DE...AAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IGQGS ENAKKYLADNPEVFAEIDHQVRVQFC I IDGEEAAES...KK...DE...VAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 408 SMU RS09530 WP 002262392.1	IGQGS ENAKKFLADNPEIFDDIDHKV RVQYCLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382
NTDB id 453 Spy49 1753c ACI62003.1	IGQGS ENAKRYLADHPQIFDEIDRKVRVKFC I LEESEEEESAMAVASE.....E.....TDDLALDL DNGIEIE	377
NTDB id 115 BSU 16940 NP 389576.2	LGQGRENAKQFLKENKDI MLMIQEQTREHYCI DNNGVVQQQAEETQE...EL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	IGQGRENAKNYLADHEDVEDEVRLKVR AAYCI SDVPEEDLP TTEDE...QI.NILPDDST.....EE.....	355
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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  
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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 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 1160012 Q4I17 RS12745 WP 097793110.1 VEE 393  
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 115 BSU 16940 NP 389576.2 ... 348  
NTDB id 625 LCA RS02525 WP 011374196.1 ... 355

consensus

 non conserved  
 similar  
 ≥ 50% conserved