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NTDB id 1044690 AB8074 RS10220 WP 003567844.1	SVRLDVRGQVVDGK...DVGFAFKLVTKNKVAPPFKSVETTMSFGHGIEHNTDMINLATDKDNDIDVITKSGSW	307
NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELNIAV...EEGIKKSGAW	308
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAEVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW	307
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAEVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW	307
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAEVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW	307
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAEVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW	307
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAEVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW	307
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAEVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW	307
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGNTQIKGTG.DQKDSNIGKETKIKVVKNKVAPPFKAEVVEIMYGEGISRTGELVKIAS...DLDIKKAGAW	307
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKAEVVEIMYGEGISRTGELVKIAS...DLGIQKAGAW	307
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT...DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAV...EKDIINKSGSW	290
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN...DVMGNKTKIKVVKNKVAPPFRTAEVIMYGEGISKEGEIIDLGT...ELDIVQKSGSW	288
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ...PTKVGNDAVANTVKIKTVKNKVAAPFKEVELALVYGGKGFQDLSDLVGLAA...DMDIKKAGSF	303
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT...L.KQNEEPIGNRVKIKVVKNKVAPPFRQAEDVIMFGEGLSREGELIDYGV...KLDIVDKSGAW	290
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA...L.KQNEQHIGNRAKIKVVKNKVAPPFRQAEDVIMFGEGISKEGEIIDYGV...KLDIVDKSGAW	292
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS...L.KQNEQHIGNRAKIKVVKNKVAPPFRQAEDVIMFGEGISKEGEIIDYGV...KLDIVDKSGAW	292
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSLSDTGKIKDKSGEVIIGNRTKIKVVKNKVAPPFKSAEFDIMYGEGVSKVGEIIDVAT...DLDIQKSGSW	303
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV...V.KDGDEIIGSETKVKVVKNKVAPPFRQVQFDIMYGEGISRMNELLILAE...ANGFIKKSGAW	306
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKGEEVLGNETRVKVIKNKVAPPFRQAEDVILYGEGISWEGELIDYGV...KNDIINKSGAW	290
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKGEEVLGNETRVKVIKNKVAPPFRQAEDVILYGEGISWEGELIDYGV...KNDIINKSGAW	290
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS...I.KKGEEVLGNETRVKVIKNKVAPPFRQAEDVILYGEGISWEGELIDYGV...KNDIINKSGAW	290
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS...I.KKGDEVGNETKIKVVKNKVAPPFRQAEDVILYGAGVSRGEIIDLGV...EAKVVEKSGAW	298
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA...I.KEGEEVLGNETRIKVVKNKIAAPFKEANTQIMYGGFNREGELIDLGV...KHKMVEKSGAW	289
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA...I.KEGEEVLGNETRIKVVKNKIAAPFKEANTQIMYGGFNREGELIDLGV...KHKMVEKSGAW	289
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA...V.KEGDEVVGNETRVKVVKNKVAPPFRQAEDVILYGGKIVRNGEIIDLGV...QQGLVEKSGAW	289
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ...V.KEGDEIIGSETKVKVVKNKMAPPFRQAEDVILYGGKIVNQLGELVDLAV...QQNIVQKAGAW	289
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ...V.KEGDEIVGSETKVKVVKNKMAPPFKAEIFQVILYGGKIVNQLGELVDLAV...QQDIVQKAGAW	289
consensus	*!***** * ** *****!!!!!!* * *****!*** ** ** ! !**	

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NTDB id 1044690 AB8074 RS10220 WP 003567844.1	YNYGKERLGGGLVNASHYLDEHPETISKETIEEKTREQVAPKKPEETDEKQDDKKDDQASADKKTEKTTTTDTEKKADKKDD	387
NTDB id 600 KW2 RS01765 WP 011675413.1	FAYNDEKIGQGAEKAKXNYLKEHQDVFDEIDHKVRAAHGLLDDSEVAETEETETASKTKAKAKKEEKAVETEEIELE.LED	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	YSYKDEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLD.LGD	380
NTDB id 228 SPD RS09265 WP 001085462.1	YSYKDEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLD.LGD	380
NTDB id 194 SPR RS08825 WP 001085462.1	YSYKDEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLD.LGD	380
NTDB id 159 SP RS09750 WP 001085462.1	YSYKDEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLD.LGD	380
NTDB id 499 SM12261 RS08315 WP 078228268.1	YSYKDEKIGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAES...KKDE...AAQVDS..VNEEVTLD.LGD	376
NTDB id 527 SMSK321 RS11065 WP 001085454.1	YSYKDEKIGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAES...KKDE...VAQVDS..VNEEVTLD.LGD	376
NTDB id 453 Spy49 1753c ACI62003.1	FSYNGEKIGQGSENAKRYLADHPQLFDEIDRKRVRVKFGLLEESEESAMAVASE...E...TDDLALD.LDN	372
NTDB id 408 SMU RS09530 WP 002262392.1	YSYNGEKIGQGSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK...ETDEK..ADKNLVLE.LDD	377
NTDB id 625 LCA RS02525 WP 011374196.1	YSYGSEIRIGQGRENAKNYLADHEDVEDEVRLKVRAAAGISDVPEEDLPTTEDE.QI.NILPDDST...EE...355	355
NTDB id 115 BSU 16940 NP 389576.2	YSYEEERLGGGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQAEETQEEL.EFE.E...348	348
NTDB id 1313 DR RS12030 WP 010888966.1	YSYGDERIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAPEAAEA...363	363
NTDB id 1245 Cj1673c YP 002345041.1	FSYKDKKLGQGRENSKAFLENPEIADEITKAIQNSMGIEMMI...SGSEDDE..GEE...343	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LSYQDKKLGQGRENAKALLKEDKALADEITLTKESIGSNEEI...MPLPDEP..LEEME...347	347
NTDB id 1211 C694 RS00795 WP 000963128.1	LSYQDKKLGQGRENAKALLKEDKALADEITLTKESIGSNEEI...MPLPDEP..LEEME...347	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	FSYQDTKLGQGRDTPVKELTKDNPELAELEAKIREKLQAK...343	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	FSYDGTKIGQGXNNAVKWLKENPEIADKLEQEI RNTLASNPNS...VLKATASDSNDES DVEE..FSEEEL...372	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	YSYNGAKIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI...TEGT...QDET DGE..RPEE...348	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	YSYNGAKIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI...TEGT...QDET DGE..RPEE...348	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	YSYNGAKIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI...TEGT...QDET DGE..RPEE...348	348
NTDB id 1427 RS RS02760 WP 011000510.1	YSYNGERIGQGRDNCREFLRENAELAREIENKVRHLGVTPMG...AV.TLAE EVEED...352	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	YSYNGDKIGQGKANACKYLLKENPEIAKTLDKKLREMLLN PENM...QLIAETSSAADDVEFGA..VPEEF...354	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	YSYNGDKIGQGKANACKYLLKENPEIAKTLDKKLREMLLN PENM...QLIAETSSAADDVEFGA..VPEEF...354	354
NTDB id 1205 PSJM300 05545 AFN77183.1	YAYKGSKIGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSAN...TKATPVAEDLADADI...347	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	YSYQGNKIGQGXNNVIRYLEENPQISTEIEAVIREQLLTKASD...QTAA.HDETEEEP DLL...ES...349	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	YSYQGNKIGQGXNNVIRYFENNQIAEIERNIREQLLTTGTN...GAVQ.I.EDEE EEPDLL...LES...349	349
consensus	**! **!!!***** ** * *** ***** ** **	

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NTDB id 1044690 AB8074 RS10220 WP 003567844.1	PASFGVDRLV	397
NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	ELEIEIEE..	388
NTDB id 228 SPD RS09265 WP 001085462.1	ELEIEIEE..	388
NTDB id 194 SPR RS08825 WP 001085462.1	ELEIEIEE..	388
NTDB id 159 SP RS09750 WP 001085462.1	ELEIEIEE..	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	ELEIEIEE..	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	ELEIEIEE..	384
NTDB id 453 Spy49 1753c ACI62003.1	GIEIED....	378
NTDB id 408 SMU RS09530 WP 002262392.1	TIELED....	383
NTDB id 625 LCA RS02525 WP 011374196.1	.....	355
NTDB id 115 BSU 16940 NP 389576.2	.....	348
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
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	372
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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

consensus

 non conserved
 similar
 ≥ 50% conserved