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NTDB id 600 KW2 RS01765 WP 011675413.1	VEIYGPESSGKTTVALHAVA	AAVQKEGGIAAFIDAENALDPEYAKALGVNIDELLSQPDYGEQGLQIAEKLITSGAVDLV	155
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAETHALDPAYAAALGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	154
NTDB id 228 SPD RS09265 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAETHALDPAYAAALGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	154
NTDB id 194 SPR RS08825 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAETHALDPAYAAALGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	154
NTDB id 159 SP RS09750 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAETHALDPAYAAALGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	154
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAETHALDPAYAAALGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	154
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAETHALDPAYAAALGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	154
NTDB id 408 SMU RS09530 WP 002262392.1	VEIYGPESSGKTTVALHAVA	AQAQKDGGAFAFIDAETHALDPAYAAALGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	154
NTDB id 453 Spy49 1753c ACI62003.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAETHALDPAYAAALGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	154
NTDB id 115 BSU 16940 NP 389576.2	IEVYGPESSGKTTVALHAVA	AEVQQQGGQAFAFIDAETHALDPVYAQKLGVNIEELLSQPDYGEQGLEIAGKLIDSGAVDLV	139
NTDB id 625 LCA RS02525 WP 011374196.1	VEIYGPESSGKTTVALHAVA	AEVQKGGTAAYIDAENAMDPKYATALGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	141
NTDB id 1313 DR RS12030 WP 010888966.1	TEIYGPESSGKTTVALHAVA	IVQAQKAGGTCFAFIDAETHALDPVYARALGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	153
NTDB id 1245 Cj1673c YP 002345041.1	IEIYGPESSGKTTVALHAVA	IAEQKAGGVCFAFIDAETHALDPVYAKNLGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	140
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IEIYGPESSGKTTVALHAVA	IAEQKNGGVCFAFIDAETHALDPVYAKRGLVDENLLVSQPDYGEQGLEIAGKLIDSGAVDLV	142
NTDB id 1211 C694 RS00795 WP 000963128.1	IEIYGPESSGKTTVALHAVA	IAEQKNGGVCFAFIDAETHALDPVYAKRGLVDENLLVSQPDYGEQGLEIAGKLIDSGAVDLV	142
NTDB id 1334 RAOC RS04870 WP 004918236.1	VEIYGPESSGKTTVALHAVA	IAEAQKVGGAFAFIDAETHALDPVYAKNLGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	149
NTDB id 224949 BOA89 RS09475 WP 085377932.1	IEIFGPESSGKTTVALHAVA	IAEQKNGGVCFAFIDAETHALDPVYAKRGLVDENLLVSQPDYGEQGLEIAGKLIDSGAVDLV	153
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VEIYGPESSGKTTVALHAVA	IAQAQKGNKTCFAFIDAETHALDPVYARNLGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	157
NTDB id 1130 NGFG RS03960 WP 003688695.1	VEIFGPESSGKTTVALHAVA	IAEQKNGGVCFAFIDAETHALDPVYARKLGVKVEELYLSQPDYGEQGLEIAGKLIDSGAVDLV	141
NTDB id 1124 NGFG RS03960 WP 003688695.1	VEIFGPESSGKTTVALHAVA	IAEQKNGGVCFAFIDAETHALDPVYARKLGVKVEELYLSQPDYGEQGLEIAGKLIDSGAVDLV	141
NTDB id 1123 OK783 RS03845 WP 003688695.1	VEIFGPESSGKTTVALHAVA	IAEQKNGGVCFAFIDAETHALDPVYARKLGVKVEELYLSQPDYGEQGLEIAGKLIDSGAVDLV	141
NTDB id 1427 RS RS02760 WP 011000510.1	VEIYGPESSGKTTVALHAVA	IAEQKNGGVCFAFIDAETHALDPVYADKLGKVPDILLVSQPDYGEQGLEIAGKLIDSGAVDLV	149
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VEIFGPESSGKTTVALHAVA	IAAAQREGKTCFAFIDAETHALDPVYAKKLGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	140
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VEIFGPESSGKTTVALHAVA	IAAAQREGKTCFAFIDAETHALDPVYAKKLGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	140
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VEIYGPESSGKTTVALHAVA	IAEQKAGGTCFAFIDAETHALDPVYARKLGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	140
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IEIYGPESSGKTTVALHAVA	IAEQKSGGTCFAFIDAETHALDPVYARKLGVNIDELLSQPDYGEQGLEIAGKLIDSGAVDLV	140
NTDB id 1205 PSJM300 05545 AFN77183.1	VEIYGPESSGKTTVALHAVA	IAAAQRMGSTCFAFIDAETHALDPVYAGKLGVNVDLLVSQPDYGEQGLEIAGKLIDSGAVDLV	140
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NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGA	EKAKNYLKEHQDVFDEIDHKVRAAHGILDDSEVAETEEETTASKTKAKAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEI	386
NTDB id 228 SPD RS09265 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEI	386
NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEI	386
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEI	386
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EKIGQGS	ENAKKYLADNPEVFAEIDHQVVRVQFGLIDGEEAAE....SKKDE....VAQVDS..VNEEVTLDLGDELEIEI	382
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGS	ENAKKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAE....SKKDE....AAQVDS..VNEEVTLDLGDELEIEI	382
NTDB id 408 SMU RS09530 WP 002262392.1	EKIGQGS	ENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED	383
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGS	ENAKRYLADHPQLFDEIDRKVVRVKFGLLEESEEEESAMAVASE.....E.....TDDLALDLDNNGIEIED	378
NTDB id 115 BSU 16940 NP 389576.2	ERLGGG	RENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAEEETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQG	RENAKNYLADHEDVEDEVRLKVRAAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQG	KEKTIAYTAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAA..EA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	KKLGQG	RENSKAFLENPEIADEITKAIQNSMGTIEGMIS.....GSEDD..EG..EE.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKLGQG	RENAKALLKEDKALADEITLKI KESIGSNEEIM....PLPDE..PL..EEME.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	KKLGQG	RENAKALLKEDKALADEITLKI KESIGSNEEIM....PLPDE..PL..EEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	TKLGQG	RDTVKELIKDNPELAELEAKIREKLQAK.....	343
NTDB id 224949 BOA89 RS09475 WP 085377932.1	QRIGQG	RENAKQYLRDNPDMAFEIEDKIRASHGLEFGAS.....DDG..DDAVTEA.....	356
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQG	KNNAVKWLKENPEIADKLEQEI RNTLASNPNSV....LKATASDSN..DESDVEEFSEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVWLKENPEISDEIDAKIRALNGVEMHIT....EGTQDETGDG..ER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVWLKENPEISDEIDAKIRALNGVEMHIT....EGTQDETGDG..ER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQG	KDNVRVWLKENPEISDEIDAKIRALNGVEMHIT....EGTQDETGDG..ER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQG	RDNCRREFLRENAELAREIENKVRHLGVTPMGA....VTLA.EEVE..ED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQG	KANACKYLLKENPEIAKTLDKKLRREMLLNPNENMQ....LIAETSSAA..DDVEFGAVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQG	KANACKYLLKENPEIAKTLDKKLRREMLLNPNENMQ....LIAETSSAA..DDVEFGAVPEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQG	KNNVIRYLEENPQISTEIEAVIREQLLTKASDQ....TAA.HDETE..EEDPLL..ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQG	KNNVIRYFEENNQIAEEIERNIREQLLTTGTNG....AVQ.I.EDE..EEDPLL..LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQG	KANAACYLLENPEIGQIEIQQIRAKLLVTSANT....KATPVAEDL..ADADI.....	347

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NTDB id 600 KW2 RS01765 WP 011675413.1	..	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EE	388
NTDB id 159 SP RS09750 WP 001085462.1	EE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	EE	384
NTDB id 408 SMU RS09530 WP 002262392.1	..	383
NTDB id 453 Spy49 1753c ACI62003.1	..	378
NTDB id 115 BSU 16940 NP 389576.2	..	348
NTDB id 625 LCA RS02525 WP 011374196.1	..	355
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NTDB id 1245 Cj1673c YP 002345041.1	..	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	..	347
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NTDB id 224949 BOA89 RS09475 WP 085377932.1	..	356
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

 non conserved
 similar
 ≥ 50% conserved