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NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGILDDSEVAETEEETTASKTAKAKKKEE...KAVETEEIELELED... . . .	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGSSENAKKYLAEPHPEIFDEIDKQVRSKFGIDGEEVSEQDTEENKKE...PKKEE...A..VNEEVPLDLGDELEI	384
NTDB id 228 SPD RS09265 WP 001085462.1	KIGQGSSENAKKYLAEPHPEIFDEIDKQVRSKFGIDGEEVSEQDTEENKKE...PKKEE...A..VNEEVPLDLGDELEI	384
NTDB id 194 SPR RS08825 WP 001085462.1	KIGQGSSENAKKYLAEPHPEIFDEIDKQVRSKFGIDGEEVSEQDTEENKKE...PKKEE...A..VNEEVPLDLGDELEI	384
NTDB id 159 SP RS09750 WP 001085462.1	KIGQGSSENAKKYLAEPHPEIFDEIDKQVRSKFGIDGEEVSEQDTEENKKE...PKKEE...A..VNEEVPLDLGDELEI	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	KIGQGSSENAKKYLADNPEVFAEIDHQVVRVQFGLIDGEEAAE...SKKDE...VAQVD...S..VNEEVTLDLGDELEI	380
NTDB id 499 SM12261 RS08315 WP 078228268.1	KIGQGSSENAKKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAE...SKKDE...AAQVD...S..VNEEVTLDLGDLEI	380
NTDB id 408 SMU RS09530 WP 002262392.1	KIGQGSSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK...ETDE...K..ADKNLVLELDDTIEL	381
NTDB id 453 Spy49 1753c ACI62003.1	KIGQGSSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE...E...TDDLALDLNNGIEI	376
NTDB id 115 BSU 16940 NP 389576.2	RIGQGRENAAKQFLKENKDIIMLMIQEQIREHYGLDNNGVVQQQAEETQE...L.EFE.E... . . . . .	348
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQGRENAAKNYLADHEDVEDEVRLKVRVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST...EE... . . . . .	355
NTDB id 1313 DR RS12030 WP 010888966.1	RIGQCKEKTIAIYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAP...AA...PEAAEA... . . . . .	363
NTDB id 1245 Cj1673c YP 002345041.1	KIGQGRENSKAFLEKENPEIADEITKATQNSMGI EGMISGSEDDEGEE... . . . . .	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KIGQGRENAKALLKEDKALADEITLTKESIGSNEEIMPLPDEPLEEME... . . . . .	347
NTDB id 1211 C694 RS00795 WP 000963128.1	KIGQGRENAKALLKEDKALADEITLTKESIGSNEEIMPLPDEPLEEME... . . . . .	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	KIGQGRDITVKELIKDNPELAEELEAKIREKLQAK... . . . . .	343
NTDB id 1130 NGFG RS03960 WP 003688695.1	KIGQCKDNVVRVWIKENPEISDEIDAKIRALNCGVEMHITEGTQDE.TDGER...PEE... . . . . .	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQCKDNVVRVWIKENPEISDEIDAKIRALNCGVEMHITEGTQDE.TDGER...PEE... . . . . .	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	KIGQCKDNVVRVWIKENPEISDEIDAKIRALNCGVEMHITEGTQDE.TDGER...PEE... . . . . .	348
NTDB id 1099819 H9T68 RS23625 WP 280190029.1	KIGQGRDNAREFLRENARDIATEIENKVRSGLCISLLPTAGGEAPEAKATK...PGKAKADKDGVIEG... . . . . .	367
NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGRDNCREFLRENAELAREIENKVRREHLGVTPMGAUTLAEVEVE...D... . . . . .	352
NTDB id 1389 A4U84 RS07560 WP 021112712.1	KIGQCKNNVAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSN.D... . . . . .ESDVVEEFSEEL... . . . . .	372
NTDB id 1165 A1552VC RS01565 WP 000344154.1	KIGQCKANACKYLLKENPEIAKTLDKKLREMLLNPNEMQLIAETSSAA.D... . . . . .DVEFGAVPEEF... . . . . .	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQCKANACKYLLKENPEIAKTLDKKLREMLLNPNEMQLIAETSSAA.D... . . . . .DVEFGAVPEEF... . . . . .	354
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQCKANAACKYLLKENPEIIGQEIEQQIRAKLLVTSANTKATPVAEDL.A... . . . . .DADI... . . . . .	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQCKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETE.E... . . . . .EPDLL..ES... . . . . .	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQCKNNVIRYFEENNQIAEIEIERNIREQLLTTGTNGAVQ.I.EDE.E... . . . . .EPDLL..LES... . . . . .	349
consensus	**!!!** ** * ** * ** * ** * ** * ** *	

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	E	L	E	E	
NTDB id 600 KW2 RS01765 WP 011675413.1	.	.	.	.	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	E	I	E	E	388
NTDB id 228 SPD RS09265 WP 001085462.1	E	I	E	E	388
NTDB id 194 SPR RS08825 WP 001085462.1	E	I	E	E	388
NTDB id 159 SP RS09750 WP 001085462.1	E	I	E	E	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E	I	E	E	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	I	E	E	384
NTDB id 408 SMU RS09530 WP 002262392.1	E	D	.	.	383
NTDB id 453 Spy49 1753c ACI62003.1	E	D	.	.	378
NTDB id 115 BSU 16940 NP 389576.2	.	.	.	.	348
NTDB id 625 LCA RS02525 WP 011374196.1	.	.	.	.	355
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 1130 NGFG RS03960 WP 003688695.1	.	.	.	.	348
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NTDB id 1099819 H9T68 RS23625 WP 280190029.1	.	.	.	.	367
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	.	.	.	.	372
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.	.	.	.	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.	.	.	.	354
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