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NTDB id 600 KW2 RS01765 WP 011675413.1	IVEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAKALGVNIDELLSQPDYGEQGLQIAEKLITSGAVDL	154
NTDB id 269 KZH43 RS08665 WP 001085462.1	IIEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDL	153
NTDB id 228 SPD RS09265 WP 001085462.1	IIEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDL	153
NTDB id 194 SPR RS08825 WP 001085462.1	IIEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDL	153
NTDB id 159 SP RS09750 WP 001085462.1	IIEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDL	153
NTDB id 499 SM12261 RS08315 WP 078228268.1	IIEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDL	153
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IIEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDL	153
NTDB id 408 SMU RS09530 WP 002262392.1	IVEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDL	153
NTDB id 453 Spy49 1753c ACI62003.1	IIEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDL	153
NTDB id 625 LCA RS02525 WP 011374196.1	IVEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDL	140
NTDB id 43249 HPL003 RS18045 WP 014281151.1	VIEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYASKLGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	138
NTDB id 115 BSU 16940 NP 389576.2	IIEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	138
NTDB id 1313 DR RS12030 WP 010888966.1	IIEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	152
NTDB id 1245 Cj1673c YP 002345041.1	IIEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	139
NTDB id 1211 C694 RS00795 WP 000963128.1	IIEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	141
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IIEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	141
NTDB id 1334 RAOC RS04870 WP 004918236.1	IVEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	148
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IVEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	156
NTDB id 1130 NGFG RS03960 WP 003688695.1	IVEIFGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	140
NTDB id 1124 NGFG RS03960 WP 003688695.1	IVEIFGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	140
NTDB id 1123 OK783 RS03845 WP 003688695.1	IVEIFGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	140
NTDB id 1427 RS RS02760 WP 011000510.1	VVEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	148
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IVEIFGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	139
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IVEIFGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	139
NTDB id 1205 PSJM300 05545 AFN77183.1	IVEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	139
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IVEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	139
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IIEIYGPESGKTTVALHVAQAQKGGIAAFIDAENALDPYAAAALGVNIDELLSQPDTGEQALEIAEALVRSQAVDI	139
consensus	**!***!!!!*!!!!* ! **! !* ** !***!!!!*!! !!*****!***!!!!*!!*! * ****!***!*	

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NTDB id 600 KW2 RS01765 WP 011675413.1
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 NTDB id 159 SP RS09750 WP 001085462.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 NTDB id 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 43249 HPL003 RS18045 WP 014281151.1
 NTDB id 115 BSU 16940 NP 389576.2
 NTDB id 1313 DR RS12030 WP 010888966.1
 NTDB id 1245 Cj1673c YP 002345041.1
 NTDB id 1211 C694 RS00795 WP 000963128.1
 NTDB id 1214 NCTC11637 00359 SQJ03206.1
 NTDB id 1334 RAOC RS04870 WP 004918236.1
 NTDB id 1389 A4U84 RS07560 WP 021112712.1
 NTDB id 1130 NGFG RS03960 WP 003688695.1
 NTDB id 1124 NGFG RS03960 WP 003688695.1
 NTDB id 1123 OK783 RS03845 WP 003688695.1
 NTDB id 1427 RS RS02760 WP 011000510.1
 NTDB id 1165 A1552VC RS01565 WP 000344154.1
 NTDB id 1142 GTF74 RS11550 WP 000344154.1
 NTDB id 1205 PSJM300 05545 AFN77183.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1

consensus



DEKIGQGA EKAKNYLKEHQDVFD EIDHKVRAAHGL LDDSEVAETEETTASKTKAKAKKEEKAVETE IEIELELED 387
 DEKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQDTENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQDTENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQDTENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQDTENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAADNPEIFDEIDHQVVRVQFGL LIDGEEIAES KKDE AAQVDS . . VNEEVTLDLGDLEIE 381
 DEKIGQGS ENAKKYLAADNPEVFAEIDHQVVRVQFGL LIDGEEAAES KKDE VAQVDS . . VNEEVTLDLGDLEIE 381
 GEKIGQGS ENAKKFLADNPEIFDDIDHKVVRVQYGL IEEDNTEEKQSSKEK ETDEK ADKNLVLELDDTIELE 382
 GEKIGQGS ENAKRYLADHPQLFDEIDRKRVRKFG LLEEEEEESAMAVASE E TDDLALDLNGIEIE 377
 SERIGQG RENAKNYLADHEDVEDEVRLKVVRAAYGI SDVPEEDLPTTEDEQINILPDDS TEE 355
 GERLGGG RENAKQFLKENPNIASTIEQQKIRVASNL ITTVAP PTEEEL . AKQAKEE QELL . . ELE 353
 EERLGGG RENAKQFLKENKDIMLMIQEQUIREHYGL DNNG VV . QQAEEET QEEL . . EFEE 348
 DERIGQG KEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAA . EA 363
 DKKLGQG RENSKAFLKENPEIADEITKAIQNSMGI EGMI SGSEDDE . . G . . EE 343
 DKKLGQG RENAKALLKEDKALADEITLTKESIGSNEEI MPLPDEP . . L . . EEME 347
 DKKLGQG RENAKALLKEDKALADEITLTKESIGSNEEI MPLPDEP . . L . . EEME 347
 DTKLGQGRD TVKELTKDNPELAELEAKIREKLQAK 343
 GTKIGQG KNNAVKWLKENPEIADKLEQEIRNTLASNPNS VLKATASDSN DESDVEEFSEEL 372
 GAKIGQG KDNVRVWLKENPEISDEIDAKIRALNGVEMHI TEGT QDETGERPEE 348
 GAKIGQG KDNVRVWLKENPEISDEIDAKIRALNGVEMHI TEGT QDETGERPEE 348
 GAKIGQG KDNVRVWLKENPEISDEIDAKIRALNGVEMHI TEGT QDETGERPEE 348
 GERIGQGRD NCREFLRENAELAREIENKVVREHLGVTPMG AV . TLAEVE . . ED 352
 GDKIGQG KANACKYLKENPEIAKTLDKKLREMLLNPENM QLIAETSSAA DDVEFGAVPEEF 354
 GDKIGQG KANACKYLKENPEIAKTLDKKLREMLLNPENM QLIAETSSAA DDVEFGAVPEEF 354
 GSKIGQG KANAACKYLEENPEIGIEEQIRAKLLVTSAN TKATPVAEDL . . ADADI 347
 GNKIGQG KNNVIRYLEENPQISTEIEAVIREQLLTKASD QTAA . HDETE . . EEPDLL . . ES 349
 GNKIGQG KNNVIRYFEENNQIAEIEIRNIREQLLTTGTN GAVQ . I . EDE . . EEPDLL . . LES 349

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NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388
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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 625 LCA RS02525 WP 011374196.1	...	355
NTDB id 43249 HPL003 RS18045 WP 014281151.1	...	353
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
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349

consensus

 non conserved
 similar
 ≥ 50% conserved