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NTDB id 600 KW2 RS01765 WP 011675413.1	VEIYGPESSGKTTVALHAVA	AAVQKEGGIAAFIDAENALDPEYAKALGVNIDELLSQPDYGEQGLQIAEKLITSGAVDLV	155
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAETHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 228 SPD RS09265 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAETHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 194 SPR RS08825 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAETHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 159 SP RS09750 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAETHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAETHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAETHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 408 SMU RS09530 WP 002262392.1	VEIYGPESSGKTTVALHAVA	AQAQKDGGAFAFIDAETHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 453 Spy49 1753c ACI62003.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAETHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 115 BSU 16940 NP 389576.2	IEVYGPESSGKTTVALHAVA	AEVQQQGGQAFAFIDAETHALDPVYAQKLGVNIEELLSQPDTEGEQALEIAEALVRSGAVDIV	139
NTDB id 625 LCA RS02525 WP 011374196.1	VEIYGPESSGKTTVALHAVA	AEVQKGGTAAYIDAENAMDPKYATALGVNIDELLSQPDTEGEQGLEIADALVSSGAVDIL	141
NTDB id 1313 DR RS12030 WP 010888966.1	TEIYGPESSGKTTVALHAVA	IAEVAQAQKAGGTCFAFIDAETHALDPVYARALGVNTDELVSQPDNTEGEQALEIMELLVRSAGIDVV	153
NTDB id 1245 Cj1673c YP 002345041.1	IEIYGPESSGKTTVALHAVA	IAEQAQKGGVCAFAFIDAETHALDVKYAKNLGVNTDLYVVSQPDFGEQALEIVETIARSGAVDLI	140
NTDB id 1211 C694 RS00795 WP 000963128.1	IEIYGPESSGKTTVALHAVA	IAEQAQKGGVCAFAFIDAETHALDVHYAKRLGVDTENLLVSQPDTEGEQALEILETITRSGGIDL	142
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IEIYGPESSGKTTVALHAVA	IAEQAQKGGVCAFAFIDAETHALDVHYAKRLGVDTENLLVSQPDTEGEQALEILETITRSGGIDL	142
NTDB id 1334 RAOC RS04870 WP 004918236.1	VEIYGPESSGKTTVALHAVA	IAEQAQKGGVCAFAFIDAETHALDFMHYAEKLGINLEELIVSQPDNTEGEQALEIADSLIRSGGVDIV	149
NTDB id 1130 NGFG RS03960 WP 003688695.1	VEIFGPESSGKTTVALHAVA	IAEQAQKGGVCAFAFIDAETHALDFPVYARKLGVKVEELYLSQPDTEGEQALEICDTLVRSGGIDMV	141
NTDB id 1124 NGFG RS03960 WP 003688695.1	VEIFGPESSGKTTVALHAVA	IAEQAQKGGVCAFAFIDAETHALDFPVYARKLGVKVEELYLSQPDTEGEQALEICDTLVRSGGIDMV	141
NTDB id 1123 OK783 RS03845 WP 003688695.1	VEIFGPESSGKTTVALHAVA	IAEQAQKGGVCAFAFIDAETHALDFPVYARKLGVKVEELYLSQPDTEGEQALEICDTLVRSGGIDMV	141
NTDB id 137052 NA29 RS21715 WP 039393076.1	IEIYGPESSGKTTVALHAVA	IAEQAQKGGVCAFAFIDAETHALDVGYANKLGVSPELLISQPDTEGEQALEIADALVRSGSIDL	151
NTDB id 1427 RS RS02760 WP 011000510.1	VEIYGPESSGKTTVALHAVA	IAEQAQKGGVCAFAFIDAETHALDVTYADKLGVKVPDILLISQPDTEGEQALEIADALVRSGSVDLI	149
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VEIYGPESSGKTTVALHAVA	IAEQAQKGGVCAFAFIDAETHALDPVYARNLGVNTELLISQPDNTEGEQALEICDALVRSAGVDVI	157
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VEIFGPESSGKTTVALHAVA	IAEQAQREGKTCFAFIDAETHALDPVYAKKLGVNIDELLSQPDTEGEQALEICDALARSGAVDVI	140
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VEIFGPESSGKTTVALHAVA	IAEQAQREGKTCFAFIDAETHALDPVYAKKLGVNIDELLSQPDTEGEQALEICDALARSGAVDVI	140
NTDB id 1205 PSJM300 05545 AFN77183.1	VEIYGPESSGKTTVALHAVA	IAEQAQRMGSTCAFAFIDAETHALDPDYAGKLGVNVDLLVSQPDTEGEQALEITDMLVRSNAVDVI	140
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VEIYGPESSGKTTVALHAVA	IAEQAQKAGGTCFAFIDAETHALDPQYARKLGVDIDNLLVSQPDHGEQALEIADMLVRSAGIDL	140
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IEIYGPESSGKTTVALHAVA	IAEQAQKSGGTCFAFIDAETHALDPQYARKLGVDIDNLLVSQPDNTEGEQALEIADMLVRSAGIDL	140
consensus	***!!!!*!!!!* ! **!	!* ** !*!!!!*!*!* !! !*!!!!*!*!*!!!!*!!!!*!!!!* * ****!*!!!!**	







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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 499 SM12261 RS08315 WP 078228268.1	EE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EE	384
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NTDB id 1313 DR RS12030 WP 010888966.1	..	363
NTDB id 1245 Cj1673c YP 002345041.1	..	343
NTDB id 1211 C694 RS00795 WP 000963128.1	..	347
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NTDB id 1334 RAOC RS04870 WP 004918236.1	..	343
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
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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