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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 527 SMSK321 RS11065 WP 001085454.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAETHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 499 SM12261 RS08315 WP 078228268.1	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	AEVQKQGGTAAYIDAENAMDPKYATALGVNIDELLSQPDTEGEQGLEIADALVSSGAVDIV	141
NTDB id 1313 DR RS12030 WP 010888966.1	TEIYGPESSGKTTVALHAVA	IVQAQKAGGTCFAFIDAETHALDPVYARALGVNIDELLSQPDNTEGEQALEIMELLVRSGAVDIV	153
NTDB id 1245 Cj1673c YP 002345041.1	IEIYGPESSGKTTVALHAVA	IAECQKAGGVCFAFIDAETHALDVKYAKNLGVNIDELLSQPDTEGEQALEIETIARSGAVDLV	140
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IEIYGPESSGKTTVALHAVA	IAECQKNGGVCFAFIDAETHALDVHYAKRLGVDENLLVSQPDTEGEQALEIETITRSGIDLV	142
NTDB id 1211 C694 RS00795 WP 000963128.1	IEIYGPESSGKTTVALHAVA	IAECQKNGGVCFAFIDAETHALDVHYAKRLGVDENLLVSQPDTEGEQALEIETITRSGIDLV	142
NTDB id 1334 RAOC RS04870 WP 004918236.1	VEIYGPESSGKTTVALHAVA	IAEAQKVGTAFAFIDAETHALDFMHYAEKLGINLEELIVSQPDNTEGEQALEIADSLTRSGVDIV	149
NTDB id 95652 APX01 RS10285 WP 002720615.1	IEIYGPESSGKTTVALHAVA	VAEEQKKGVCFAFIDAETHALDPQYAKKLGVNIDELLSQPDTEGEQALEIVDTLVRSGAVNLV	153
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VEIYGPESSGKTTVALHAVA	IAQAQKGNKTCFAFIDAETHALDPVYARNLGVNIDELLSQPDNTEGEQALEICDALVRSGAVDIV	157
NTDB id 1130 NGFG RS03960 WP 003688695.1	VEIFGPESSGKTTVALHAVA	AQCQKNGGVCFAFIDAETHALDPVYARKLGKVEELYLSQPDTEGEQALEICDTLVRSGIDMV	141
NTDB id 1124 NGFG RS03960 WP 003688695.1	VEIFGPESSGKTTVALHAVA	AQCQKNGGVCFAFIDAETHALDPVYARKLGKVEELYLSQPDTEGEQALEICDTLVRSGIDMV	141
NTDB id 1123 OK783 RS03845 WP 003688695.1	VEIFGPESSGKTTVALHAVA	AQCQKNGGVCFAFIDAETHALDPVYARKLGKVEELYLSQPDTEGEQALEICDTLVRSGIDMV	141
NTDB id 1427 RS RS02760 WP 011000510.1	VEIYGPESSGKTTVALHAVA	VVAEMQKLGTCFAFIDAETHALDVTYADKLGKVPDLLISQPDTEGEQALEIADALVRSGSVDLV	149
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VEIFGPESSGKTTVALHAVA	IAAAQREGKTCFAFIDAETHALDPVYAKKLGVNIDELLSQPDTEGEQALEICDALARSGAVDIV	140
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VEIFGPESSGKTTVALHAVA	IAAAQREGKTCFAFIDAETHALDPVYAKKLGVNIDELLSQPDTEGEQALEICDALARSGAVDIV	140
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VEIYGPESSGKTTVALHAVA	IAAQCQKAGGTCFAFIDAETHALDPQYARKLGVDIDNLLVSQPDHTEGEQALEIADMLVRSGATDLV	140
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IEIYGPESSGKTTVALHAVA	IAAQCQKSGGTCFAFIDAETHALDPQYARKLGVDIDNLLVSQPDNTEGEQALEIADMLVRSGATDLV	140
NTDB id 1205 PSJM300 05545 AFN77183.1	VEIYGPESSGKTTVALHAVA	IAAAQRMGSTCFAFIDAETHALDPDYAGKLGVNVDLLVSQPDTEGEQALEITDMLVRSNAVDIV	140
consensus	*****	*****	

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 NTDB id 1334 RAOC RS04870 WP 004918236.1
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 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 1205 PSJM300 05545 AFN77183.1

consensus






EKIGQGA EKAKNYLKEHQDV FDEIDHKVRAAHG LDDSEVAETEEETTAS KTKAKAKKEEKAVETEEIELELED..... 387
 EKIGQGS ENAKKYLA EHPEIFDEIDKQVRSKFG LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEI 386
 EKIGQGS ENAKKYLA EHPEIFDEIDKQVRSKFG LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEI 386
 EKIGQGS ENAKKYLA EHPEIFDEIDKQVRSKFG LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEI 386
 EKIGQGS ENAKKYLA EHPEIFDEIDKQVRSKFG LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEI 386
 EKIGQGS ENAKKYLADNPEVFAEIDHQV RVVQFGLIDGEEAAE...SKKDE...VAQVDS..VNEEVTLDLGDELEIEI 382
 EKIGQGS ENAKKYLADNPEIFDEIDHQV RVVQFGLIDGEEIAE...SKKDE...AAQVDS..VNEEVTLDLGDELEIEI 382
 EKIGQGS ENAKKFLADNPEIFDDIDHKV RVVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED 383
 EKIGQGS ENAKRYLADHPQLFDEIDRKR VVKFGLLEESEEEESAMAVASE.....E.....TDDLALDLDNNGIEIED 378
 ERLGQGR ENAKQFLKENKDIMLMIQE QIREHYGLDNNGVVQQQAEEETQEEL.EFE.E..... 348
 ERIGQGR ENAKNYLADHEDVEDEVRLKVR AAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE..... 355
 ERIGQGKEKTIAYTAERP EMEQEIRDRVMAAIRAGNAGEAPALAPAPAPEAAE..A..... 363
 KKLGGGR ENSKAFLKENPEIAD EITKAIQNSMGI EGMI.....SGSEDDE..GE..E..... 343
 KKLGGGR ENAKALLKEDKALADEITLKI KESIGSN EEI....MPLPDEP..LE..EME..... 347
 KKLGGGR ENAKALLKEDKALADEITLKI KESIGSN EEI....MPLPDEP..LE..EME..... 347
 TKLGGGRD TVKELIKDNPELAELEAK IREKLQAK..... 343
 ERIGQGR ENAKAFLRANPTVAGDI EDRI RASHGLDFST.....GED.....GK..GDDLVDM..... 357
 TKIGQGGKNNAVKWLKENPEIADKLEQE I RNTLASNPNS.....VLKATASDSND..ESDV EEFSEEL..... 372
 AKIGQGGKDNVRVWLKENPEISDEIDAKI RALNGVEMHI....TEGTQDET DGE..R.....PEE..... 348
 AKIGQGGKDNVRVWLKENPEISDEIDAKI RALNGVEMHI....TEGTQDET DGE..R.....PEE..... 348
 AKIGQGGKDNVRVWLKENPEISDEIDAKI RALNGVEMHI....TEGTQDET DGE..R.....PEE..... 348
 ERIGQGRDNCREFLRENAELAREI ENKVR EHLGVTPMG....AVTLA.EEVEE..D..... 352
 DKIGQGGKANACKY LKENPEIAKTLDKKLREMLLN PENM.....QLIAETSSAAD..DVEFGAVPEEF..... 354
 DKIGQGGKANACKY LKENPEIAKTLDKKLREMLLN PENM.....QLIAETSSAAD..DVEFGAVPEEF..... 354
 NKIGQGGKNNVIRYLEENPQISTEIEAVI REQLLTKASD....QTAA.HDETEE..EPDLL..ES..... 349
 NKIGQGGKNNVIRYFEENNQIAEEIERNI REQLLTTGTN....GAVQ.I.EDEE..EPDLL..LES..... 349
 SKIGQGGKANAAKYLEENPEIGQEIEQQI RAKLLVTSAN....TKATPVAEDLA..DADI..... 347

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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 1205 PSJM300 05545 AFN77183.1	..	347

consensus

 non conserved
 similar
 ≥ 50% conserved