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NTDB id 1313 DR RS12030 WP 010888966.1	IYGPESGGKTTLALAIIVAAQKAGGTC	AFIDAEHALDPVYARALGVNTDELLVSQPDN	GEQALEIMELLVRS	GAVD	IVVV	155
NTDB id 1334 RA0C RS04870 WP 004918236.1	IYGPESGGKTTLTLHAI	AEAQKVGGA	AFIDAEHAFDMHYAEKLG	INLEEL	IVSQPDN	151
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IYGPESGGKTTITLSLIAQAQKGNKTC	AFIDAEHALDPVYARNLGVNTDELLISQPDN	GEQALEICDALVRS	GAVD	VIIV	159
NTDB id 1130 NGFG RS03960 WP 003688695.1	IYGPESGGKTTLCLEAVAQCKNGGVC	AFVDAEHAFDPVYARKLGVKVEELYLSQPD	TGEQALEICDTL	VRS	GIDM	143
NTDB id 1124 NGFG RS03960 WP 003688695.1	IYGPESGGKTTLCLEAVAQCKNGGVC	AFVDAEHAFDPVYARKLGVKVEELYLSQPD	TGEQALEICDTL	VRS	GIDM	143
NTDB id 1123 OK783 RS03845 WP 003688695.1	IYGPESGGKTTLCLEAVAQCKNGGVC	AFVDAEHAFDPVYARKLGVKVEELYLSQPD	TGEQALEICDTL	VRS	GIDM	143
NTDB id 1427 RS RS02760 WP 011000510.1	IYGPESGGKTTLTLQVVAEMQKLG	GTC	AFIDAEHALDVTYADKLGKVP	DL	ISQPD	151
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IYGPESGGKTTLTLELIAAAQREGKTC	AFIDAEHALDPVYAKKLG	VNIDELLV	SQPD	TGEQALEIC	142
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IYGPESGGKTTLTLELIAAAQREGKTC	AFIDAEHALDPVYAKKLG	VNIDELLV	SQPD	TGEQALEIC	142
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IYGPESGGKTTMTLQAI	AQCKAGGTC	AFIDAEHALDPQYARKLGVD	IDN	LLVSQPD	142
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IYGPESGGKTTMTLQAI	AQCKSGGTC	AFIDAEHALDPQYARKLGVD	IDN	LLVSQPD	142
NTDB id 1205 PSJM300 05545 AFN77183.1	IYGPESGGKTTLTLSVI	AAARMGSTC	AFVDAEHALDPDYAGKLG	VNVDLL	VSQPD	142
NTDB id 1245 Cj1673c YP 002345041.1	IYGPESGGKTTLTLHII	AECQKAGGVC	AFIDAEHALDVKYAKN	LG	VNTD	142
NTDB id 1211 C694 RS00795 WP 000963128.1	IYGPESGGKTTLSLHII	AECQKNGGVC	AFIDAEHALDVHYAKRLG	VD	TEN	144
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IYGPESGGKTTLSLHII	AECQKNGGVC	AFIDAEHALDVHYAKRLG	VD	TEN	144
NTDB id 600 KW2 RS01765 WP 011675413.1	IYGPESGGKTTVALHAVA	AAVQKEGGIA	AFIDAEHALDPEYAKAL	GVN	IDELL	157
NTDB id 269 KZH43 RS08665 WP 001085462.1	IYGPESGGKTTVALHAVA	AAQKKEGGIA	AFIDAEHALDPAYAAAL	GVN	IDELL	156
NTDB id 228 SPD RS09265 WP 001085462.1	IYGPESGGKTTVALHAVA	AAQKKEGGIA	AFIDAEHALDPAYAAAL	GVN	IDELL	156
NTDB id 194 SPR RS08825 WP 001085462.1	IYGPESGGKTTVALHAVA	AAQKKEGGIA	AFIDAEHALDPAYAAAL	GVN	IDELL	156
NTDB id 159 SP RS09750 WP 001085462.1	IYGPESGGKTTVALHAVA	AAQKKEGGIA	AFIDAEHALDPAYAAAL	GVN	IDELL	156
NTDB id 499 SM12261 RS08315 WP 078228268.1	IYGPESGGKTTVALHAVA	AAQKKEGGIA	AFIDAEHALDPAYAAAL	GVN	IDELL	156
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IYGPESGGKTTVALHAVA	AAQKKEGGIA	AFIDAEHALDPAYAAAL	GVN	IDELL	156
NTDB id 453 Spy49 1753c ACI62003.1	IYGPESGGKTTVALHAVA	AAQKKEGGIA	AFIDAEHALDPAYAAAL	GVN	IDELL	156
NTDB id 408 SMU RS09530 WP 002262392.1	IYGPESGGKTTVALHAVA	AAQKDG	GIAAFIDAEHALDPAYAAAL	GVN	IDELL	156
NTDB id 625 LCA RS02525 WP 011374196.1	IYGPESGGKTTVALHAVA	AEVQKGGTA	AYIDAEHALDMPKY	ATAL	GVN	143
NTDB id 1095105 ACMVYO RS00655 WP 002448773.1	IYGPESGGKTTVALHAI	AEVQKNGGVA	AFIDAEHALDPVYAEAL	GVN	DIDN	142
NTDB id 115 BSU 16940 NP 389576.2	IYGPESGGKTTVALHAI	AEVQKGGQA	AFIDAEHALDPVYAQK	LG	VNIDELL	141
consensus	**!!!!*!!!!* ! **!	!* **	!***!!!!*!* *!	!!	!!*****!***!!*!!*!!*!!*!	!***!***!***

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NTDB id 1313 DR RS12030 WP 010888966.1	IGQGGKKTIA ^Y IAERP ^E MEQ ^E IRDRVMAAIRAGNAGEAPALAPAP.AA.....PEAAEA.....	363
NTDB id 1334 RA0C RS04870 WP 004918236.1	LGQGRD ^T V ^K ELIK ^D NP ^E LAE ^E LEAK ^I REKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IGQGGKNN ^A V ^K W ^L KENPEI ^A DK ^L EQE ^I RNT ^L ASNPNSVLKATASDSNDES ^D VEEF ^S EEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	IGQGGKDN ^V RV ^W LKENPEI ^S DEI ^D AK ^I RAL ^N GVEMHITEGTQDET ^D GER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	IGQGGKDN ^V RV ^W LKENPEI ^S DEI ^D AK ^I RAL ^N GVEMHITEGTQDET ^D GER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	IGQGGKDN ^V RV ^W LKENPEI ^S DEI ^D AK ^I RAL ^N GVEMHITEGTQDET ^D GER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	IGQGRD ^N CRE ^F LR ^E NA ^E LAREI ^E ENK ^V REHL ^G VTPMGAV ^T LA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IGQGGKAN ^A CK ^Y LKENPEI ^A KT ^L DK ^K LREMLLN ^P ENM ^Q LIAETSSAADDVEFGAV ^P EEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IGQGGKAN ^A CK ^Y LKENPEI ^A KT ^L DK ^K LREMLLN ^P ENM ^Q LIAETSSAADDVEFGAV ^P EEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IGQGGKNN ^V IR ^Y LEEN ^P QI ^S TEI ^E EA ^V IREQLLT ^K ASD ^Q TAA.HDETEEEP ^D LL..ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IGQGGKNN ^V IR ^Y FEEN ^N QI ^A E ^E IERN ^I REQLLT ^T GT ^N GAV ^Q .I.EDEEEP ^D LL..LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	IGQGGKAN ^A AK ^Y LEEN ^P EI ^G Q ^E IE ^Q Q ^I RAK ^L L ^V TSANTKAT ^P VAED ^L AD ^A DI.....	347
NTDB id 1245 Cj1673c YP 002345041.1	LGQGRE ^N SK ^A FL ^K ENPEI ^A DEI ^T KA ^I QNSM ^G IEGMIS ^G SE ^D DE.GEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	LGQGRE ^N AK ^A L ^L KED ^K ALADEI ^T LK ^I KES ^I GSNEEI ^M PL ^P DE ^P .LEEM.E.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LGQGRE ^N AK ^A L ^L KED ^K ALADEI ^T LK ^I KES ^I GSNEEI ^M PL ^P DE ^P .LEEM.E.....	347
NTDB id 600 KW2 RS01765 WP 011675413.1	IGQGAEK ^A K ^N Y ^L KEH ^Q D ^V FDEI ^D HK ^V RAA ^H GLLD ^D SEVAETE ^E ETTAS.KTKAKAKKEEKAVETEEIELE ^D	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IGQGS ^E NA ^K K ^Y LA ^E H ^P EI ^F DEI ^D K ^V RSK ^F GLIDGEEV ^S EQD ^T EN ^K KD.E...PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 228 SPD RS09265 WP 001085462.1	IGQGS ^E NA ^K K ^Y LA ^E H ^P EI ^F DEI ^D K ^V RSK ^F GLIDGEEV ^S EQD ^T EN ^K KD.E...PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 194 SPR RS08825 WP 001085462.1	IGQGS ^E NA ^K K ^Y LA ^E H ^P EI ^F DEI ^D K ^V RSK ^F GLIDGEEV ^S EQD ^T EN ^K KD.E...PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 159 SP RS09750 WP 001085462.1	IGQGS ^E NA ^K K ^Y LA ^E H ^P EI ^F DEI ^D K ^V RSK ^F GLIDGEEV ^S EQD ^T EN ^K KD.E...PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 499 SM12261 RS08315 WP 078228268.1	IGQGS ^E NA ^K K ^Y LAD ^N PEI ^F DEI ^D H ^Q VRV ^Q FGLIDGEEI ^A ES...KKD.E...AAQV ^D S..VNEEVTL ^D LDGDELEIEIE	383
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IGQGS ^E NA ^K K ^Y LAD ^N PEV ^F AEI ^D H ^Q VRV ^Q FGLIDGEEA ^A ES...KKD.E...VAQV ^D S..VNEEVTL ^D LDGDELEIEIE	383
NTDB id 453 Spy49 1753c ACI62003.1	IGQGS ^E NA ^K R ^Y LAD ^H P ^Q LFDEI ^D R ^K VRV ^K FGLLEESE ^E ESAMAV ^A SE.....E.....TDDLALDL ^D NGIEI ^E D.	378
NTDB id 408 SMU RS09530 WP 002262392.1	IGQGS ^E NA ^K K ^F LAD ^N PEI ^F DDI ^D H ^K VRV ^Q YGLIEEDN ^T E ^E K ^Q SS ^K EK.....ETDEK..ADKNLVLELD ^D TIE ^L E ^D .	383
NTDB id 625 LCA RS02525 WP 011374196.1	IGQGRE ^N AK ^N Y ^L AD ^H ED ^V E ^D EV ^R LK ^V RAA ^Y GISDVPEED ^L PTTEDE ^Q I.NILPDD ^S TEE.....	355
NTDB id 1095105 ACMVYO RS00655 WP 002448773.1	MGQGGK ^E N ^V K ^T Y ^L KEN ^P Q ^I K ^D EI ^D R ^K LREK ^L GIFDGD ^V EENED ^K SS ^Q TL...FDEE.....	348
NTDB id 115 BSU 16940 NP 389576.2	LGQGRE ^N AK ^Q FL ^K EN ^K DIM ^L MI ^Q EQ ^I REHY ^G L ^D NNGV ^V QQ ^A EET ^Q EE...LEFEE.....	348
consensus	*!!!***** ** ***** ***** ** **	

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NTDB id 1313 DR RS12030 WP 010888966.1	.	363
NTDB id 1334 RA0C RS04870 WP 004918236.1	.	343
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
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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
NTDB id 1245 Cj1673c YP 002345041.1	.	343
NTDB id 1211 C694 RS00795 WP 000963128.1	.	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.	347
NTDB id 600 KW2 RS01765 WP 011675413.1	.	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	E	388
NTDB id 228 SPD RS09265 WP 001085462.1	E	388
NTDB id 194 SPR RS08825 WP 001085462.1	E	388
NTDB id 159 SP RS09750 WP 001085462.1	E	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E	384
NTDB id 453 Spy49 1753c ACI62003.1	.	378
NTDB id 408 SMU RS09530 WP 002262392.1	.	383
NTDB id 625 LCA RS02525 WP 011374196.1	.	355
NTDB id 1095105 ACMVYO RS00655 WP 002448773.1	.	348
NTDB id 115 BSU 16940 NP 389576.2	.	348

consensus

non conserved
 similar
 ≥ 50% conserved