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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGAERDKALADALALIEKD	FGKGSIMRLGER	.ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKFGE	DERKALDDALKNIEKD	FGKGVMLRGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKFGE	DERKALDDALKNIEKD	FGKGVMLRGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73	
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQ	FGKGSIMKLG	TDTRISTVPSGSLALDI	TALGIGGYPKGR	58	
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKN	FGKGSIMRMGEK	VDTQVSTVSSGSLALDEAL	GVGGYPKGR	60	
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKAT	ETAMSKIEKAFGKGSIMKLGAE	.SKLDVQVSTGSLSLDL	ALGVGGIPKGR	72	
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDSIGTGSVGLDL	ALGIGGVPKGR	59	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQID	KVFGKGAIVRLGDK	.QVEKIDAI	ISTGSLGLDL	ALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQID	KVFGKGAIVRLGDK	.QVEKIDAI	ISTGSLGLDL	ALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1MAKT..ETTSPNDDKKK	ALAAVLEKLDKTYGKGTVMKLG	DTVDHNI	IEVIPS	SGSLGLDL	ALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNTV.VKQVEPEQKKQ	ALEAALAIQIEKQ	FGKGSIMKLG	QTEQLDIESVSTGSLGLDL	ALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAIQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR	60	
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAIQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR	60	
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAIQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR	60	
NTDB id 1427 RS RS02760 WP 011000510.1	.MED.....GK..KAASMSAEKQ	KALAAALAIQIEKQ	FGKGSIMKMDA	.EVEPVQVSTGSLGLD	VALGVGGLPRGR	68	
NTDB id 95027 NGK01 RS18830 WP 015571667.1	.....MAIDENKQKALAAALGQIEKQ	FGKGSIMRLGED	.RSMDVETISTGSLSLDI	ALGAGGLPMGR	61	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKQRALAAALGQIEKQ	FGKGAIVRMGDH	.DRQAIP	ISTGSLGLDI	ALGIGGLPKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1MDENKSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59		
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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA E KAKNYLKEHQ DV FDEIDHKVRAAHG L LDSEVAETEEETTASKTAKAKKE E KAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS E NAKKYLA E HP E IFDEIDKQVRSK F GLIDGEEVSEQD T ENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS E NAKKYLA E HP E IFDEIDKQVRSK F GLIDGEEVSEQD T ENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS E NAKKYLA E HP E IFDEIDKQVRSK F GLIDGEEVSEQD T ENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS E NAKKYLA E HP E IFDEIDKQVRSK F GLIDGEEVSEQD T ENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS E NAKKYLAD N PEVFAEIDHQV R VQ F GLIDGEEAAE....SKKDE....VAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS E NAKKYLAD N PEVFAEIDHQV R VQ F GLIDGEEIAE....SKKDE....AAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS E NAKRYLAD H PL F DEIDR K V R V K FL E ESEEEESAMAVASE.....E.....TDDLALDLNGIEIE	377
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS E NAK F LAD N PEV F DDID H K V R V Q Y GL I EEDNTEEKQSSKEK.....ETDE K ..ADKNLVLELDDTIELE	382
NTDB id 115 BSU 16940 NP 389576.2	EE R L G Q G RE N A K Q F L K EN K D I M L M I Q E Q I RE H Y G L D NN G V V Q Q A E ET Q E L .E F E.....E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGRE N A K NYLAD H ED V EV R L K V R A A Y G IS D V P E E D L P T T E D E .Q I .N I L P D D S T.....E E	355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQ G KE K T I A Y A E R P E M E Q E I R D R V M A A I R A G N A G E A P A L A P A A E A.....E A	363
NTDB id 1245 Cj1673c YP 002345041.1	DK K L G Q G RE N S K A F L K EN P E I A D E I T K A I Q N S M G I E G M I.....S G S E D D E.....G E E.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DK K L G Q G RE N A K A L L K E D K A L A D E I T L K I K E S I G S N E E I.....M P L P D E P.....L E E M E.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	DK K L G Q G RE N A K A L L K E D K A L A D E I T L K I K E S I G S N E E I.....M P L P D E P.....L E E M E.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DT K L G Q G R D T V K E L I K D N P E L A E L E A K I R E K L Q A K	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GT K I G Q G K N N A V K W L K E N P E I A D K L E Q E I R N T L A S N P N S.....V L K A T A S D S N ...D E S D V E E F S E E L	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	G A K I G Q G K D N V R V W L K E N P E I S D E I D A K I R A L N G V E M H I.....T E G.....T...Q D E T D G E R P E E.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	G A K I G Q G K D N V R V W L K E N P E I S D E I D A K I R A L N G V E M H I.....T E G.....T...Q D E T D G E R P E E.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	G A K I G Q G K D N V R V W L K E N P E I S D E I D A K I R A L N G V E M H I.....T E G.....T...Q D E T D G E R P E E.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	GE R I G Q G R D N C R E F L RE N A E L A R E I E N K V R E H L G V T P M G.....A V T L .A E E V E...E D	352
NTDB id 95027 NGK01 RS18830 WP 015571667.1	GD K I G Q G K A N A I S W L K E N P A A A K E I E K K V R E L L L N Q D S.....K P D F V V D.....G A D A E E T N E D F.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GD K I G Q G K A N A C K Y L K E N P E I A K T L D K K L R E M L L N P E N M.....Q L I A E T S S A A ...D D V E F G A V P E E F	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GD K I G Q G K A N A C K Y L K E N P E I A K T L D K K L R E M L L N P E N M.....Q L I A E T S S A A ...D D V E F G A V P E E F	354
NTDB id 1205 PSJM300 05545 AFN77183.1	G S K I G Q G K A N A A K Y L E E N P E I G E I E Q Q I R A K L L V T S A N.....T K A T P V A E D L ...A D A D I.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	G N K I G Q G K N N V I R Y L E E N P Q I S T E I E A V I R E Q L L T K A S D.....Q T A A . H D E T E ...E E P D L L E S	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	G N K I G Q G K N N V I R Y F E E N N Q I A E I E R N I R E Q L L T T G T NG A V Q . I .E D E...E E P D L L E S	349

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NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
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 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
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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