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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK.....TNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74		
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP.....KKLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73			
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP.....KKLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73			
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP.....KKLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73			
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP.....KKLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73			
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP.....KKLDEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP.....KKLDEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73			
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL.....KKNEEITKKFG	DERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73			
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI.....KKTEEITKKFG	DERKKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73			
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQ	IEKQFGKGSIMKLG	IEK.TDTRISTVPSGSLALDI	TALGIGGYPRGR	58			
NTDB id 413370 GT084 RS03030 WP 118272570.1	.MAND.....KNKVQGDQP	EERLKAALDAALKKIEK	KFGKGSIMKMG	GGK.VDTKISTISSGSLAIDA	GLGVGGYPRGR	70			
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKK	IEKNFGKGSIMRM	GGK.VDTQVSTVSSGSLALDE	ALGVGGYPRGR	60			
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTD	AKERSKATETAM	SQIEKAFGKGSIMKLG	AE.SKLDVQVVSTGSLSLDL	ALGVGGIPRGR	72		
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDSIGTGSVGLDL	ALGIGGVPKGR	59			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLA	IKQIDKVF	FGKGAALVRLGDK	.QVEKIDAISTGSLGLDL	ALGIGGVPKGR	61		
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLA	IKQIDKVF	FGKGAALVRLGDK	.QVEKIDSISTGSLGLDL	ALGIGGVPKGR	61		
NTDB id 1334 RAOC RS04870 WP 004918236.1MAKT..ETTS	PNDDKKKALAAVLEK	LDKTYGKGTVMKLG	DGTVDHNI	IEVIPS	SGSLGLDLALGVGGYPKGR	68		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNTV.VKQVEPEQ	KKQALEAALAQIEKQ	FGKGSIMKLG	QT.EQLDIESVSTGSLGLDL	ALGIGGLPMGR	76		
NTDB id 1130 NGFG RS03960 WP 003688695.1MSDDKSKALAAALAQ	IEKSF	FGKGAIMKMDGSQ	QEE	ENLEVISTGSLGLDL	ALGVGGLPRGR	60		
NTDB id 1124 NGFG RS03960 WP 003688695.1MSDDKSKALAAALAQ	IEKSF	FGKGAIMKMDGSQ	QEE	ENLEVISTGSLGLDL	ALGVGGLPRGR	60		
NTDB id 1123 OK783 RS03845 WP 003688695.1MSDDKSKALAAALAQ	IEKSF	FGKGAIMKMDGSQ	QEE	ENLEVISTGSLGLDL	ALGVGGLPRGR	60		
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K.KAASMS	AIEKQKALAAALAQIEKQ	FGKGSIMKMG	DA.EVEPVQVVSTGSLGLD	VALGVGGLPRGR	68			
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQ	IEKQFGKGSIMRLG	DN.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59			
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQ	IEKQFGKGSIMRLG	DN.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59			
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQ	IEKQFGKNTVMRLG	DN.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59			
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDENKSKALQAALSQ	IEKQFGKNTVMRLG	DN.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59			
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRRALAAALGQ	IEKQFGKGAVMRM	GDH.DRQAIPSISTGSLGLDI	ALGIGGLPKGR	59				
consensus		*** **	**	**!	*!!*****	*	***!!*****!!	!!	!!!

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NTDB id 600 KW2 RS01765 WP 011675413.1
 NTDB id 269 KZH43 RS08665 WP 001085462.1
 NTDB id 228 SPD RS09265 WP 001085462.1
 NTDB id 194 SPR RS08825 WP 001085462.1
 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 453 Spy49 1753c ACI62003.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 115 BSU 16940 NP 389576.2
 NTDB id 413370 GT084 RS03030 WP 118272570.1
 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 1313 DR RS12030 WP 010888966.1
 NTDB id 1245 Cj1673c YP 002345041.1
 NTDB id 1214 NCTC11637 00359 SQJ03206.1
 NTDB id 1211 C694 RS00795 WP 000963128.1
 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 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1205 PSJM300 05545 AFN77183.1

consensus



DEKIGQGA EKAKNYLKEHQDVFD EIDHKVRAAHGL LDDSEVAETEEETTASKTKAKAKKEEKAVETEEIELELED 387
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQDTENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQDTENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQDTENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQDTENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLADNPEIFDE IDHQVVRVQFGL IDGEEIAES KKDE AAQVDS . . VNEEVTLDLGDELEIE 381
 DEKIGQGS ENAKKYLADNPEVFAE IDHQVVRVQFGL IDGEEAAES KKDE VAQVDS . . VNEEVTLDLGDELEIE 381
 GEKIGQGS ENAKRYLADHPQLFDE IDRKVVRVKFGL LEESEEEESAMAVASE E TDDLALDLNGIEIE 377
 GEKIGQGS ENAKKFLADNPEIFDD IDHKVVRVQYGL IEEDNTEEKQSSKEK ETDEK . . ADKNLVLELDDTIELE 382
 EERLGGGREN AKQFLKENKDIMLMIQE IREHYGL DNNGVVQQAAE . . TQEELEFEE 348
 DTRIGQGRENAKEYLSEHEDEMNE INIKVREAYG IPDEDGN . VPESQDENATQSAVDGKTTDIDDSEEVS LDVNDSD . . 381
 SERIGQGRENAKNYLADHEDVE DEVRLKVR AAYG I SDVPEEDLPTTEDEQINILP . DDSTEE 355
 DERIGQGKEKTIAYIA ERPPEMEQE IRDRVMAAIRAGNAGEAPALAPAPAPEAA . EA 363
 DKKLGQGRENSKAF LKENPEIADEITKAIQNSMG IEGMI SGSEDDE . G . EE 343
 DKKLGQGRENAKALLKEDKALADEITLKI KESIGSNEEI MPLPDEP . L . EEME 347
 DKKLGQGRENAKALLKEDKALADEITLKI KESIGSNEEI MPLPDEP . L . EEME 347
 DTKLGQGRD TVKELTKDNPELAE ELEAK IREKLQAK 343
 GTKIGQGNNAVKWLKENPEIADKLEQEIRNTLASNPN S VLKATASDSN . . DESDVVEEFSEEL 372
 GAKIGQKDNVVRVWLKENPEISDE IDAKIRALNGVEMHI TEGTQDETD GERPEE 348
 GAKIGQKDNVVRVWLKENPEISDE IDAKIRALNGVEMHI TEGTQDETD GERPEE 348
 GAKIGQKDNVVRVWLKENPEISDE IDAKIRALNGVEMHI TEGTQDETD GERPEE 348
 GERIGQGRDNCREFLRENAELAREIENKVR EHLGVTPMG AV . TLAEVE . ED 352
 GDKIGQKANKACKYLKENPEIAKTL DKKLREMLLN PENM QLIAETSSAA . . DDVEFGAVPEEF 354
 GDKIGQKANKACKYLKENPEIAKTL DKKLREMLLN PENM QLIAETSSAA . . DDVEFGAVPEEF 354
 GNKIGQKNNVIRYFEENNQIA EEIERN IREQLLTTGTN GAVQ . I . EDE . . EEPD . . LLES 349
 GNKIGQKNNVIRYLEENPQISTEIEAV IREQLLTKASD QTAA . HDETE . . EEPD . . LLES 349
 GSKIGQKANKACKYLKENPEIQEIEQQ IRAKLLVTSAN TKATPVAEDL . ADAD . I 347

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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 499	SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527	SMSK321 RS11065 WP 001085454.1	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 413370	GT084 RS03030 WP 118272570.1	...	381
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
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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
NTDB id 1142	GTF74 RS11550 WP 000344154.1	...	354
NTDB id 1074	ABD1 RS10195 WP 000344167.1	...	349
NTDB id 1022	ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1205	PSJM300 05545 AFN77183.1	...	347

consensus

ⓧ non conserved
ⓧ similar
ⓧ ≥ 50% conserved