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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKKT....NFDDITKKYGA	ERDKALADALALIEKDFGKGSIMRLGEA	.ANQKVS	VSSGSLALDIALGAGGYPKGR	74					
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKPK....KLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQ	VMSGSLALDIALGSGGYPKGR	73					
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKPK....KLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQ	VMSGSLALDIALGSGGYPKGR	73					
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKPK....KLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQ	VMSGSLALDIALGSGGYPKGR	73					
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKPK....KLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQ	VMSGSLALDIALGSGGYPKGR	73					
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKPK....KLDEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQ	VMSGSLALDIALGSGGYPKGR	73					
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKPK....KLDEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQ	VMSGSLALDIALGSGGYPKGR	73					
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKLK....KNEEITKKFG	DERKALDDALKNIEKDFGKGAVMRLGER	.AEQKVQ	VMSGSLALDIALGAGGYPKGR	73					
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRIK....KTEEITKKFG	DERKALDDALKNIEKDFGKGAVMRLGER	.AEQKVQ	VMSGSLALDIALGAGGYPKGR	73					
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQ	IEKQFGKGSIMKLGEK	.TDTRIST	VPSGSLALDTALGIGGYPGR	58				
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKK	IEKNFGKGSIMRMGEK	.VDTQVST	VSSGSLALDEALGVGGYPGR	60				
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQ	IEKAFGKGSIMKLGAE	.SKLDVQ	VVSTGSLSLDLALGVGGIPGR	72				
NTDB id 1004564 ABGB03 RS13855 WP 347923169.1	.....MSNEKEAKLKALKLTLDK	LDKAYGKGTVMKMSDQAV	.VDIDAIS	SSGSLGLDIALGVGGYPGR	62				
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKTE..TTSPNDDKKKALAAVLEK	LDKTYGKGTVMKLGDTVDHN	IEVIPS	GSLGLDLALGVGGYPKGR	68				
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDS	IGTGSVGLDLALGIGGVPKGR	59				
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKAIISLAIKQ	IDKVFSGKALVRLGDK	.QVEKIDA	ISTGSLGLDLALGIGGVPKGR	61				
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKAIISLAIKQ	IDKVFSGKALVRLGDK	.QVEKIDS	ISTGSLGLDLALGIGGVPKGR	61				
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTVV..KQVEPEQKKQALEAALAQ	IEKQFGKGSIMKLGQT	.EQLDIES	VSTGSLGLDLALGIGGLPMGR	76					
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQ	IEKSFSGKAIMKMDGSQEQEN	LEVIST	GSLGLDLALGVGGLPRGR	60				
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQ	IEKSFSGKAIMKMDGSQEQEN	LEVIST	GSLGLDLALGVGGLPRGR	60				
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQ	IEKSFSGKAIMKMDGSQEQEN	LEVIST	GSLGLDLALGVGGLPRGR	60				
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KK..AASMSAEKQKALAAALAQ	IEKQFGKGSIMKMGDA	.EVEPVQ	VVSTGSLGLDVALGVGGLPRGR	68					
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQ	IEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLDIALGAGGLPMGR	59				
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQ	IEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLDIALGAGGLPMGR	59				
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQ	IEKQFGKNTVMRLGDN	.TVQAVE	AVSTGSLTLDIALGIGGLPKGR	59				
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQ	IEKQFGKNTVMRLGDN	.TVQAVE	AVSTGSLTLDIALGIGGLPKGR	59				
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRRALAAALGQ	IEKQFGKGAVMRMGDH	.DRQAIPS	ISTGSLGLDIALGIGGLPKGR	59					
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NTDB id 600	KW2	RS01765	WP 011675413.1	AYNDEKIGQGA	EKA	KNYLKEHQ	DV	FDEIDHKV	RAAHG	L	DDSEVAETE	EETT	ASKTKAKAK	KKEEKAVETEE	EIELELED..	387		
NTDB id 269	KZH43	RS08665	WP 001085462.1	SYKDEKIGQGS	ENAKK	YLAEHPEI	FDEIDKQV	RSKFG	L	IDGEEVSE	QD	TENKKDE...	PKKEEA..	VNEEVPLDL	GDDEL	382		
NTDB id 228	SPD	RS09265	WP 001085462.1	SYKDEKIGQGS	ENAKK	YLAEHPEI	FDEIDKQV	RSKFG	L	IDGEEVSE	QD	TENKKDE...	PKKEEA..	VNEEVPLDL	GDDEL	382		
NTDB id 194	SPR	RS08825	WP 001085462.1	SYKDEKIGQGS	ENAKK	YLAEHPEI	FDEIDKQV	RSKFG	L	IDGEEVSE	QD	TENKKDE...	PKKEEA..	VNEEVPLDL	GDDEL	382		
NTDB id 159	SP	RS09750	WP 001085462.1	SYKDEKIGQGS	ENAKK	YLAEHPEI	FDEIDKQV	RSKFG	L	IDGEEVSE	QD	TENKKDE...	PKKEEA..	VNEEVPLDL	GDDEL	382		
NTDB id 499	SM12261	RS08315	WP 078228268.1	SYKDEKIGQGS	ENAKK	YLADNPEI	FDEIDHQV	RVVQFG	L	IDGEEIAES...	KKDE...	AAQVDS..	VNEEVTLDL	GDDEL	378			
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SYKDEKIGQGS	ENAKK	YLADNPEV	FAEIDHQV	RVVQFG	L	IDGEEAAES...	KKDE...	VAQVDS..	VNEEVTLDL	GDDEL	378			
NTDB id 453	Spy49	1753c	ACI62003.1	SYNGEKIGQGS	ENAKR	YLADHPQL	FDEIDRKR	VRVKFG	L	LEESEES	EAMAVASE.....	E.....	TDDLALDL	DNGI	374			
NTDB id 408	SMU	RS09530	WP 002262392.1	SYNGEKIGQGS	ENAKK	FLADNPEI	FDDIDHKV	RVVQYGL	I	EEDNTEEK	QSSKEK.....	ETDEK..	ADKNLVLE	LDDTI	379			
NTDB id 115	BSU	16940	NP 389576.2	SYEEERL	GGREN	AQFLKEN	KDIMLMI	QEQIREHY	G	LDNNGVV	QQAEE	TQEEL.EFE.E.....	.....	.....	348	
NTDB id 625	LCA	RS02525	WP 011374196.1	SYGSERIGQGS	ENAKN	YLADHED	VEDEVRL	KVRAAYG	I	SDVPEED	LPTTEDE.QI.NIL	PDDST.....	EE.....	.....	355		
NTDB id 1313	DR	RS12030	WP 010888966.1	SYGDERIGQGS	KEKTI	AYIAERP	EMEQEIR	DRVMAA	I	RAGNAGE	APALAP	APEAAE..A.....	.....	.....	363	
NTDB id 1004564	ABGB03	RS13855	WP 347923169.1	SYQDSK	LGQRDAV	KSM	LKNPDL	MDLEEK	I	KVI	ISENK.....	.....	.....	.....	334
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SYQDTK	LGQRDTV	KELIK	DNPEL	AEELEAK	I	REKLQAK.....	.....	.....	.....	.....	343
NTDB id 1245	Cj1673c	YP 002345041.1	SYKDKK	LGQGRE	NSKAF	LKENPEI	ADEITKA	I	QNSM	GIEGMI....	SGSE	DEDE..GE..E.....	.....	.....	343	
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SYQDKK	LGQGRE	NAKALL	KEDKAL	ADEITLK	I	KESIG	SNEEI....	MPLP	DEP..LE..EME.....	.....	347		
NTDB id 1211	C694	RS00795	WP 000963128.1	SYQDKK	LGQGRE	NAKALL	KEDKAL	ADEITLK	I	KESIG	SNEEI....	MPLP	DEP..LE..EME.....	.....	347		
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SYDGT	KIGQGN	NAV	WLKENPEI	ADKLE	Q	EIRNTL	ASNPN	S....VL	KATAS	DSND..ESD	VEEF	SEEEL.....	372	
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SYNGAK	I	GGKDN	VRVWLKENPEI	SDEIDAK	I	RALN	GVEMHI....	TEGT	QDET	DGE..R.....	PEE.....	348		
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SYNGAK	I	GGKDN	VRVWLKENPEI	SDEIDAK	I	RALN	GVEMHI....	TEGT	QDET	DGE..R.....	PEE.....	348		
NTDB id 1123	OK783	RS03845	WP 003688695.1	SYNGAK	I	GGKDN	VRVWLKENPEI	SDEIDAK	I	RALN	GVEMHI....	TEGT	QDET	DGE..R.....	PEE.....	348		
NTDB id 1427	RS	RS02760	WP 011000510.1	SYNGER	I	GGKDN	CRFLREN	AELARE	I	ENKVR	REHL	GVTPMG....	AVTLA	.EEVEE..D.....	352		
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SYNGDK	I	GGKAN	ACKYLKENPEI	AKTLD	K	KLREML	LN	PENM....	QLIA	ETSSA	AD..DVE	F	GAVPEEF.....	354
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SYNGDK	I	GGKAN	ACKYLKENPEI	AKTLD	K	KLREML	LN	PENM....	QLIA	ETSSA	AD..DVE	F	GAVPEEF.....	354
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SYQGNK	I	GGKNN	VIRYLEENP	QISTE	I	EAVI	REQL	LT	KASD....	QTAA	.HDETEE..EP	DL	..ES.....	349
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SYQGNK	I	GGKNN	VIRYFEEN	NQIAE	E	IERN	IREQL	LT	TGTN....	GAVQ	.I.EDEE..EP	DL	..LES.....	349
NTDB id 1205	PSJM300	05545	AFN77183.1	AYKGS	K	IGQGAN	AAKYLEENPEI	GQEIE	Q	IRAKLL	V	TSAN....	TKATP	V	AEDLA..DADI.....	347	
consensus				*!	**!!!	*****	**	*****	*****	**	**							

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NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	EIEIEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	EIED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	ELED..	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 1004564 ABGB03 RS13855 WP 347923169.1	.....	334
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....	343
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 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 1022 ACIAD RS06390 WP 004925639.1	.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	.....	347

consensus

non conserved
 similar
 ≥ 50% conserved