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NTDB id 600	KW2	RS01765	WP 011675413.1	ALGAGGYPKGRIVEIYGPRESSGKTTVALHAVA	AAVQK	EGGIAAF	FIDAENALDPEYAKALGVNIDELL	SQPDYGEQGLQIA	143						
NTDB id 269	KZH43	RS08665	WP 001085462.1	ALGSGGYPKGRIVEIYGPRESSGKTTVALHAVA	AQAQK	EGGIAAF	FIDAEHALDPAYAAALGVNIDELL	SQPDSGEQGLEIA	142						
NTDB id 228	SPD	RS09265	WP 001085462.1	ALGSGGYPKGRIVEIYGPRESSGKTTVALHAVA	AQAQK	EGGIAAF	FIDAEHALDPAYAAALGVNIDELL	SQPDSGEQGLEIA	142						
NTDB id 194	SPR	RS08825	WP 001085462.1	ALGSGGYPKGRIVEIYGPRESSGKTTVALHAVA	AQAQK	EGGIAAF	FIDAEHALDPAYAAALGVNIDELL	SQPDSGEQGLEIA	142						
NTDB id 159	SP	RS09750	WP 001085462.1	ALGSGGYPKGRIVEIYGPRESSGKTTVALHAVA	AQAQK	EGGIAAF	FIDAEHALDPAYAAALGVNIDELL	SQPDSGEQGLEIA	142						
NTDB id 499	SM12261	RS08315	WP 078228268.1	ALGSGGYPKGRIVEIYGPRESSGKTTVALHAVA	AQAQK	EGGIAAF	FIDAEHALDPAYAAALGVNIDELL	SQPDSGEQGLEIA	142						
NTDB id 527	SMSK321	RS11065	WP 001085454.1	ALGSGGYPKGRIVEIYGPRESSGKTTVALHAVA	AQAQK	EGGIAAF	FIDAEHALDPAYAAALGVNIDELL	SQPDSGEQGLEIA	142						
NTDB id 453	Spy49	1753c	ACI62003.1	ALGAGGYPKGRIVEIYGPRESSGKTTVALHAVA	AQAQK	EGGIAAF	FIDAEHALDPAYAAALGVNIDELL	AQPDSEGEQGLEIA	142						
NTDB id 408	SMU	RS09530	WP 002262392.1	ALGAGGYPKGRIVEIYGPRESSGKTTVALHAVA	AQAQK	DGGIAAF	FIDAEHALDPAYAAALGVNIDELL	SQPDSGEQGLEIA	142						
NTDB id 625	LCA	RS02525	WP 011374196.1	ALGVGGYPRGRIVEIYGPRESSGKTTVALHAVA	AEVQK	GGTAAY	IDAENAMDPKYATALGVNIDELL	SQPDTEGEQGLEIA	129						
NTDB id 115	BSU	16940	NP 389576.2	ALGIGGYPKGRIVEIYGPRESSGKTTVALHAVA	AEVQK	GGQA	AFIDAEHALDPVYAKLGVNIDELL	SQPDTEGEQALEIA	127						
NTDB id 1313	DR	RS12030	WP 010888966.1	ALGVGGIPKGRITEIYGPRESSGKTTVALHAVA	AEVQK	GGTA	AFIDAEHALDPVYARALGVNIDELL	SQPDNTEGEQALEIM	141						
NTDB id 68002	ABRG53	RS20875	WP 126389526.1	ALG.GGLPKGRIVEIYGPRESSGKTTVALHAVA	AEVQK	GGVA	AFVDAEHALDPTYAASVGV	DINLLISQPDSE	GEMALEIV	158					
NTDB id 1245	Cj1673c	YP 002345041.1		ALGIGGVPKGRIVEIYGPRESSGKTTVALHAVA	AEVQK	GGVCA	AFIDAEHALDVKYAKNLGVNIDELL	SQPDFGEQALEIV	128						
NTDB id 1211	C694	RS00795	WP 000963128.1	ALGIGGVPKGRIVEIYGPRESSGKTTVALHAVA	AEVQK	GGVCA	AFIDAEHALDVHYAKRLGVD	TENLLVSQPDTE	GEQALEIL	130					
NTDB id 1214	NCTC11637	00359	SQJ03206.1	ALGIGGVPKGRIVEIYGPRESSGKTTVALHAVA	AEVQK	GGVCA	AFIDAEHALDVHYAKRLGVD	TENLLVSQPDTE	GEQALEIL	130					
NTDB id 1334	RAOC	RS04870	WP 004918236.1	ALGVGGYPKGRIVEIYGPRESSGKTTVALHAVA	AEVQK	GGTA	AFIDAEHAFFDMHYAEKLG	INLEELIVSQPD	NTEGEQALEIA	137					
NTDB id 1389	A4U84	RS07560	WP 021112712.1	ALGIGGLPMGRIVEIYGPRESSGKTTVALHAVA	AEVQK	GNKTC	AFIDAEHALDPVYARNLGVN	IDELLISQPDN	TEGEQALEIC	145					
NTDB id 1130	NGFG	RS03960	WP 003688695.1	ALGVGGLPRGRIVEIFGPRESSGKTTVALHAVA	AEVQK	GGVCA	AFVDAEHAFFDPVYARKL	GVKVEELYLSQPD	TEGEQALEIC	129					
NTDB id 1124	NGFG	RS03960	WP 003688695.1	ALGVGGLPRGRIVEIFGPRESSGKTTVALHAVA	AEVQK	GGVCA	AFVDAEHAFFDPVYARKL	GVKVEELYLSQPD	TEGEQALEIC	129					
NTDB id 1123	OK783	RS03845	WP 003688695.1	ALGVGGLPRGRIVEIFGPRESSGKTTVALHAVA	AEVQK	GGVCA	AFVDAEHAFFDPVYARKL	GVKVEELYLSQPD	TEGEQALEIC	129					
NTDB id 1427	RS	RS02760	WP 011000510.1	ALGVGGLPRGRIVEIYGPRESSGKTTVALHAVA	AEVQK	GGTCA	AFIDAEHALDVTYADKLG	VKVPDILLISQPD	TEGEQALEIA	137					
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	ALGAGGLPMGRIVEIFGPRESSGKTTVALHAVA	AEVQK	REGKTC	AFIDAEHALDPVYAKKLG	VNIDELLVSQPD	TEGEQALEIC	128					
NTDB id 1142	GTF74	RS11550	WP 000344154.1	ALGAGGLPMGRIVEIFGPRESSGKTTVALHAVA	AEVQK	REGKTC	AFIDAEHALDPVYAKKLG	VNIDELLVSQPD	TEGEQALEIC	128					
NTDB id 1074	ABD1	RS10195	WP 000344167.1	ALGIGGLPKGRIVEIYGPRESSGKTTVALHAVA	AEVQK	SGGTC	AFIDAEHALDPQYARKL	GVNIDNLLVSQPD	NTEGEQALEIA	128					
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	ALGIGGLPKGRIVEIYGPRESSGKTTVALHAVA	AEVQK	SGGTC	AFIDAEHALDPQYARKL	GVNIDNLLVSQPD	HTEGEQALEIA	128					
NTDB id 1205	PSJM300	05545	AFN77183.1	ALGIGGLPKGRIVEIYGPRESSGKTTVALHAVA	AEVQK	SGGTC	AFVDAEHALDPDYAGK	LGVNVDLLVSQPD	TEGEQALEIT	128					
consensus				!!!	!!	!*!!*	*!!*	!!*!!*!!*!!*!!	!!	*!!*!!*!!*!!*!!	!!	*!!*!!*!!*!!*!!	!!	!!*!!*!!*!!*!!	!!

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NTDB id 600	KW2	RS01765	WP 011675413.1	IKKSGAWFAYNDEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHGL	LLDDSEVAETE	EEETTAS	KT.KAKAKKEEKAVETEE	380		
NTDB id 269	KZH43	RS08665	WP 001085462.1	IKKAGAWYSYKDEKIGQGS	ENAKKYLAEHP	EIFDEIDKQVRSKFGL	IDGEEVSEQD	TENKKDE	.....PKKEEA..VNEE	373	
NTDB id 228	SPD	RS09265	WP 001085462.1	IKKAGAWYSYKDEKIGQGS	ENAKKYLAEHP	EIFDEIDKQVRSKFGL	IDGEEVSEQD	TENKKDE	.....PKKEEA..VNEE	373	
NTDB id 194	SPR	RS08825	WP 001085462.1	IKKAGAWYSYKDEKIGQGS	ENAKKYLAEHP	EIFDEIDKQVRSKFGL	IDGEEVSEQD	TENKKDE	.....PKKEEA..VNEE	373	
NTDB id 159	SP	RS09750	WP 001085462.1	IKKAGAWYSYKDEKIGQGS	ENAKKYLAEHP	EIFDEIDKQVRSKFGL	IDGEEVSEQD	TENKKDE	.....PKKEEA..VNEE	373	
NTDB id 499	SM12261	RS08315	WP 078228268.1	IKKAGAWYSYKDEKIGQGS	ENAKKYLADNPE	IFDEIDHQVVRVQFGL	IDGEEIAES	...KKDE	.....AAQVDS..VNEE	369	
NTDB id 527	SMSK321	RS11065	WP 001085454.1	IKKAGAWYSYKDEKIGQGS	ENAKKYLADNPE	VFAEIDHQVVRVQFGL	IDGEEAAES	...KKDE	.....VAQVDS..VNEE	369	
NTDB id 453	Spy49	1753c	ACI62003.1	IQKAGAWFSYNGEKIGQGS	ENAKRYLADHP	QLFDEIDRKRVRVKFGL	LEESEESAM	AVASE	.....E.....TDD	365	
NTDB id 408	SMU	RS09530	WP 002262392.1	IQKAGAWYSYNGEKIGQGS	ENAKKFLADNPE	IFDDIDHKVVRVQYGL	IEEDNTEEK	QSSKEK	.....ETDEK..ADKN	370	
NTDB id 625	LCA	RS02525	WP 011374196.1	INKSGSWYSYGSE	RIGQGR	ENAKNYLADHED	VEDEVRLKVR	AAYGIS	SDVPEEDLPTTEDE.QI..NILPDDST.....EE	355		
NTDB id 115	BSU	16940	NP 389576.2	VQKSGSWYSYEEER	LQGGR	ENAKQFLKEN	KDIMLMIQEQ	IREHYGLD	NNGVVQQQAEE	TEEL..EFE.E.....	348	
NTDB id 1313	DR	RS12030	WP 010888966.1	IKKAGSFYSYGDER	RIGQGKE	KTIAYTAERPE	MEQEIRDR	VMAAIRAG	NAGEAPALAPAPA	AAPEAAE.....	363	
NTDB id 68002	ABRG53	RS20875	WP 126389526.1	IVRKGAWYSYQGD	NIQGRD	NTIKYMED	KPEFAQEVER	QVREKLS	SAGVAVSATKVV	PEEIEPEDDDIPD.....DF	384	
NTDB id 1245	Cj1673c	YP 002345041.1		VDKSGAWFSYKDK	KLQGGR	ENSKAFLKEN	PEIADEITKA	IQNSMG	I	EGMISGSEDDE..GEE.....	343	
NTDB id 1211	C694	RS00795	WP 000963128.1	VDKSGAWLSYQDK	KLQGGR	ENAKALLKED	KALADEITLK	IKESIGS	NEEIMPLPDEP..LEEME.....	347		
NTDB id 1214	NCTC11637	00359	SQJ03206.1	VDKSGAWLSYQDK	KLQGGR	ENAKALLKED	KALADEITLK	IKESIGS	NEEIMPLPDEP..LEEME.....	347		
NTDB id 1334	RAOC	RS04870	WP 004918236.1	IQKSGSWFSYQDT	KLQGGR	DTVKELTKDN	PELAELEAK	IREKLQAK	.....	343	
NTDB id 1389	A4U84	RS07560	WP 021112712.1	IKKSGAWFSYDGT	KIGQGN	NAVKWLKEN	PEIADKLEQE	IRNTLAS	NPNVSKATASDS	ND	ESDVEEFSE.....EE	371
NTDB id 1130	NGFG	RS03960	WP 003688695.1	INKSGAWYSYNGAK	IQGGKDN	VRVWLKEN	PEISDEIDAK	IRALNG	VEMHITEGTQDETGERPE.....E.	348	
NTDB id 1124	NGFG	RS03960	WP 003688695.1	INKSGAWYSYNGAK	IQGGKDN	VRVWLKEN	PEISDEIDAK	IRALNG	VEMHITEGTQDETGERPE.....E.	348	
NTDB id 1123	OK783	RS03845	WP 003688695.1	INKSGAWYSYNGAK	IQGGKDN	VRVWLKEN	PEISDEIDAK	IRALNG	VEMHITEGTQDETGERPE.....E.	348	
NTDB id 1427	RS	RS02760	WP 011000510.1	VEKSGAWYSYNGER	RIGQGR	DNCREFL	RENAELARE	IENKVR	REHLGVT	PMGAV.TLAE	VEED.....	352
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	VEKSGAWYSYNGD	KIGQGN	AKACKYLKEN	PEIAKTLDKK	LREMLLN	PNENMLIAET	SSAADD	VEFGAVPE.....EF	354
NTDB id 1142	GTF74	RS11550	WP 000344154.1	VEKSGAWYSYNGD	KIGQGN	AKACKYLKEN	PEIAKTLDKK	LREMLLN	PNENMLIAET	SSAADD	VEFGAVPE.....EF	354
NTDB id 1074	ABD1	RS10195	WP 000344167.1	VQKAGAWYSYQGN	KIGQGN	NVIRYFEENN	QIAEIEIERN	IREQLLT	TGTNGAVQ.I.	EDEE	EPD..LLE.....S.	349
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	VQKAGAWYSYQGN	KIGQGN	NVIRYLEEN	PQISTEIEAV	IREQLLT	TKASDQTA	A.HDETEE	EPD..LLES.....	349
NTDB id 1205	PSJM300	05545	AFN77183.1	VEKSGAWYAYKGS	KIGQGN	AKAAKYLEEN	PEIGQIEIQ	IRAKLL	VTSANTKATP	VAEDLAD	AD..I.....	347
consensus				* * !****!	**!!!*****	** * ***	*****	**	**	*		

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	Y L D L G D E L E I E E	
NTDB id 600 KW2 RS01765 WP 011675413.1	IELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	VPLDLGDELEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	VPLDLGDELEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	VPLDLGDELEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	VPLDLGDELEIEIEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	VTLDLGDELEIEIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	VTLDLGDELEIEIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	LALDLNNGIEIED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	LVLELDDTIELED..	383
NTDB id 625 LCA RS02525 WP 011374196.1	.....	355
NTDB id 115 BSU 16940 NP 389576.2	.....	348
NTDB id 1313 DR RS12030 WP 010888966.1	.....	363
NTDB id 68002 ABRG53 RS20875 WP 126389526.1	.....	384
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 1334 RAOC RS04870 WP 004918236.1	.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	L.....	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

- X non conserved
- X similar
- X ≥ 50% conserved