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NTDB id 600	KW2	RS01765	WP	011675413.1	MATKK.....KTNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74			
NTDB id 269	KZH43	RS08665	WP	001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVMSS	GSLALDI	ALGSGGYPKGR	73			
NTDB id 228	SPD	RS09265	WP	001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVMSS	GSLALDI	ALGSGGYPKGR	73			
NTDB id 194	SPR	RS08825	WP	001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVMSS	GSLALDI	ALGSGGYPKGR	73			
NTDB id 159	SP	RS09750	WP	001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVMSS	GSLALDI	ALGSGGYPKGR	73			
NTDB id 527	SMSK321	RS11065	WP	001085454.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVMSS	GSLALDI	ALGSGGYPKGR	73			
NTDB id 499	SM12261	RS08315	WP	078228268.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVMSS	GSLALDI	ALGSGGYPKGR	73			
NTDB id 408	SMU	RS09530	WP	002262392.1	.MAKR.....IKKTEEITKKFGD	ERRKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSS	GSLALDI	ALGAGGYPKGR	73			
NTDB id 453	Spy49	1753c	ACI62003.1	.MAKK.....LKKNEEITKKFGD	ERRKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSS	GSLALDI	ALGAGGYPKGR	73				
NTDB id 625	LCA	RS02525	WP	011374196.1	.....MAKD	ERQAALDAALKK	IEKNFGKGSIMRMGEK	.VDTQVSTVSS	GSLALDEAL	GVGGYPRGR	60		
NTDB id 372245	FNB21	RS07250	WP	013058804.1	.....MN	DRQAALDMALKQ	IEKQFGKGSIMKLGEQ	.TEKRISTIPSG	SALDL	ALGVGGYPRGR	58		
NTDB id 115	BSU	16940	NP	389576.2	.....MS	DRQAALDMALKQ	IEKQFGKGSIMKLGEK	.TDTRISTVPSG	SALDL	ALGIGGYPRGR	58		
NTDB id 1313	DR	RS12030	WP	010888966.1MSKDATKEISAPTD	AKERSKATETAMS	QIEKAFGKGSIMKLGAE	.SKLDVQVVST	GSLSLDL	ALGVGGI	PRGR	72		
NTDB id 1245	Cj1673c	YP	002345041.1	.....MDDN	KRKSLSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDSIGTGSVGLDL	ALGIGGVPKGR			59		
NTDB id 1211	C694	RS00795	WP	000963128.1	.....MAIDE	DKQKATISLAIKQ	IDKVFVGKALVRLGDK	.QVEKIDSISTGSLGLDL	ALGIGGVPKGR		61		
NTDB id 1214	NCTC11637	00359	SQJ03206.1	.....MAIDE	DKQKATISLAIKQ	IDKVFVGKALVRLGDK	.QVEKIDAISTGSLGLDL	ALGIGGVPKGR			61		
NTDB id 1334	RAOC	RS04870	WP	004918236.1MAKT..ETTSPND	DKKKALAAVLEKLDKT	YGKGTVMKLGDT	GVTDHNI	IEVIPS	GSLGLDL	ALGVGGYPKGR	68		
NTDB id 1389	A4U84	RS07560	WP	021112712.1	.MAENKKS	SKNNTV.VKQVEPEQ	KKQALEAALAI	IEKQFGKGSIMKLGQT	.EQLDIESVST	GSLGLDL	ALGIGGLPMGR	76		
NTDB id 1130	NGFG	RS03960	WP	003688695.1	.....MSD	DKSKALAAALAI	QIEKSFGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR		60		
NTDB id 1124	NGFG	RS03960	WP	003688695.1	.....MSD	DKSKALAAALAI	QIEKSFGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR		60		
NTDB id 1123	OK783	RS03845	WP	003688695.1	.....MSD	DKSKALAAALAI	QIEKSFGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR		60		
NTDB id 1427	RS	RS02760	WP	011000510.1	.MEDG.....K..KAASMSA	EKQKALAAALAI	QIEKQFGKGSIMKMGDA	.EVEPVQVVST	GSLGLDV	ALGVGGLPRGR	68			
NTDB id 1165	A1552VC	RS01565	WP	000344154.1	.....MDEN	KQKALAAALG	QIEKQFGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR		59		
NTDB id 1142	GTF74	RS11550	WP	000344154.1	.....MDEN	KQKALAAALG	QIEKQFGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR		59		
NTDB id 1022	ACIAD	RS06390	WP	004925639.1	.....MDDN	KSKALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR		59		
NTDB id 1074	ABD1	RS10195	WP	000344167.1	.....MDEN	KSKALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR		59		
NTDB id 1205	PSJM300	05545	AFN77183.1MDEN	KKRALAAALG	QIEKQFGKGAVMRMGDH	.DRQAIPSISTGSLGLDI	ALGIGGLPKGR			59			
consensus						**	***	**	***!	*!!*!!*!!*!!*!!	*	***!!*!!*!!*!!*!!	!!	!!!

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NTDB id 600	KW2	RS01765	WP	011675413.1	DEKIGQGA	EKAKNYLKEHQ	DVFD	DEIDHKVRAAHG	LDDSEVAETEEE	...TTASKTKAKAKKEEKAVETEEIELELED	387	
NTDB id 269	KZH43	RS08665	WP	001085462.1	DEKIGQGS	ENAKKYLAEHPE	IFDE	IDKQVRSKFG	LIDGEEVSEQDTE	...NKKDE...PKKEEA..VNEEVPLDLGDE	381	
NTDB id 228	SPD	RS09265	WP	001085462.1	DEKIGQGS	ENAKKYLAEHPE	IFDE	IDKQVRSKFG	LIDGEEVSEQDTE	...NKKDE...PKKEEA..VNEEVPLDLGDE	381	
NTDB id 194	SPR	RS08825	WP	001085462.1	DEKIGQGS	ENAKKYLAEHPE	IFDE	IDKQVRSKFG	LIDGEEVSEQDTE	...NKKDE...PKKEEA..VNEEVPLDLGDE	381	
NTDB id 159	SP	RS09750	WP	001085462.1	DEKIGQGS	ENAKKYLAEHPE	IFDE	IDKQVRSKFG	LIDGEEVSEQDTE	...NKKDE...PKKEEA..VNEEVPLDLGDE	381	
NTDB id 527	SMSK321	RS11065	WP	001085454.1	DEKIGQGS	ENAKKYLADNPE	VFAE	IDHQVVRVQFG	LIDGEEAAE	...SKKDE...VAQVDS..VNEEVTLDLGDE	377	
NTDB id 499	SM12261	RS08315	WP	078228268.1	DEKIGQGS	ENAKKYLADNPE	IFDE	IDHQVVRVQFG	LIDGEEIAE	...SKKDE...AAQVDS..VNEEVTLDLGDE	377	
NTDB id 408	SMU	RS09530	WP	002262392.1	GEKIGQGS	ENAKKFLADNPE	IFDD	IDHKVVRVQYG	LIEEDNTEEKQSS	...KEK...ETDEK..ADKNLVLELDDT	378	
NTDB id 453	Spy49	1753c	ACI62003.1	GEKIGQGS	ENAKRYLADHP	QLFDE	IDRKVVRVQFG	LLEEESEESAMAV	...ASE...E...TDDLALDLNNG	373		
NTDB id 625	LCA	RS02525	WP	011374196.1	SERIGQG	RENAKNYLADHED	VEDEV	RLKVVRAAYG	ISDVPEEDLPTTE	...DEQINILPDDSTEE	355	
NTDB id 372245	FNB21	RS07250	WP	013058804.1	DERLGQG	RENAKQFLKENT	DIRQE	IAGQVREHHG	LIDQDGEPAPE	.DD...D.QGDLNI	345	
NTDB id 115	BSU	16940	NP	389576.2	EERLGQG	RENAKQFLKENK	DIMLM	IQQEIREHYG	LIDNNGVVQQQ	.AE...ETQEELEFEE	348	
NTDB id 1313	DR	RS12030	WP	010888966.1	DERIGQG	KEKTIAYIA	ERP	EMEQEIRDR	VMAAIRAGNAGE	APALAPAPAAPEAAEA	363	
NTDB id 1245	Cj1673c	YP	002345041.1	DKKLGQG	RENSKAF	LKENPEI	ADEIT	KAIQNSMG	IEGMI	...SGSEDD..EGEE	343	
NTDB id 1211	C694	RS00795	WP	000963128.1	DKKLGQG	RENAKALLKED	KALADE	ITLKE	SIGSNEEI	...MPLPDE..PLEEME	347	
NTDB id 1214	NCTC11637	00359	SQJ03206.1	DKKLGQG	RENAKALLKED	KALADE	ITLKE	SIGSNEEI	...MPLPDE..PLEEME	347		
NTDB id 1334	RAOC	RS04870	WP	004918236.1	DTKLGQGR	DTVKEL	TKDNPE	LAEELEAK	IREKLQAK	...	343	
NTDB id 1389	A4U84	RS07560	WP	021112712.1	GTKIGQG	KNNAVKWLKEN	PEIAD	KLEQEIR	NTLASNPNS	...VLKATASDSNDESDVEEFSEE	372	
NTDB id 1130	NGFG	RS03960	WP	003688695.1	GAKIGQG	KDNVVRVWLKEN	PEISDE	IDAKIRALN	GVEMHI	...TEGTQDET	348	
NTDB id 1124	NGFG	RS03960	WP	003688695.1	GAKIGQG	KDNVVRVWLKEN	PEISDE	IDAKIRALN	GVEMHI	...TEGTQDET	348	
NTDB id 1123	OK783	RS03845	WP	003688695.1	GAKIGQG	KDNVVRVWLKEN	PEISDE	IDAKIRALN	GVEMHI	...TEGTQDET	348	
NTDB id 1427	RS	RS02760	WP	011000510.1	GERIGQGR	DNCREF	LRENAEL	AREIENK	VREHLGV	TPMG...AVTLA.EEVEED	352	
NTDB id 1165	A1552VC	RS01565	WP	000344154.1	GDKIGQG	KANACKY	LKENPEI	AKTLD	DKKLR	EMLLNPENM...QLIAETSSAADDVEFGAVPEE	354	
NTDB id 1142	GTF74	RS11550	WP	000344154.1	GDKIGQG	KANACKY	LKENPEI	AKTLD	DKKLR	EMLLNPENM...QLIAETSSAADDVEFGAVPEE	354	
NTDB id 1022	ACIAD	RS06390	WP	004925639.1	GNKIGQG	KNNVIRY	LEENP	QISTE	IEAVIRE	QLLTKASD...QTAA.HDETEEEPDLL..ES	349	
NTDB id 1074	ABD1	RS10195	WP	000344167.1	GNKIGQG	KNNVIRY	FEENN	QIAE	EIERNIRE	QLLTTGTN...GAVQ.I.EDEEPPDLL..LES	349	
NTDB id 1205	PSJM300	05545	AFN77183.1	GSKIGQG	KANA	AKYLEEN	PEIG	QIE	EQIRAKLL	VTSAN...TKATPVAEDLADADI	347	
consensus					**!!!	*****	**	*****	*****	**	**	**

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	LEIEIEE	
NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	LEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	LEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	LEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	LEIEIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	LEIEIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	LEIEIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	IELED..	383
NTDB id 453 Spy49 1753c ACI62003.1	IEIED..	378
NTDB id 625 LCA RS02525 WP 011374196.1	.....	355
NTDB id 372245 FNB21 RS07250 WP 013058804.1	.....	345
NTDB id 115 BSU 16940 NP 389576.2	.....	348
NTDB id 1313 DR RS12030 WP 010888966.1	.....	363
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	.....	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

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