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		MEALIEKIKKEYKLIYICTGLGLLVGGFLLKPAPSTPYKETNLQAEVAAVSKDLVSEKEVKKEEKEEPL	
NTDB id 1159	ABDM36 RS04765 WP 001166105.1		0
NTDB id 1150	A1552VC RS08580 WP 001166105.1		0
NTDB id 1362	HI 1008 AAC22669.1		0
NTDB id 1382	A4U84 RS07375 WP 062924234.1		0
NTDB id 595	KW2 RS08725 WP 021037687.1	MEKILDKLKEYWKIM.LLVVCALIAGGIFYIFTNSPKPAETLSVEN...LSSS...STKSSVSKFNSSSSEK	65
NTDB id 521	SMSK321 RS04960 WP 000443804.1	MESIIEKIKKEYKIIIV.ICTGLGLLVGGFLLKPAPHTPVKETNLQAEV.VAISK..DSSTEKDVKKEEKEEPV	69
NTDB id 493	SM12261 RS04300 WP 000387351.1	MEAIIEKIKKEYKIIIV.ICTGLGLLVGGFLLKPAPQTPVKETNLQAEV.VAVSK..DSVSEKEVKKEEKEEPL	69
NTDB id 153	SP RS04730 WP 000387344.1	MEAIIEKIKKEYKIIIV.ICTGLGLLVGGFLLKPAPQTPVKETNLQAEV.AAVSK..DSSTEKEVKKEEKEEPL	69
NTDB id 263	KZH43 RS04195 WP 000387330.1	MEAIIEKIKKEYKIIIV.ICTGLGLLVGGFLLKPAPQTPVKETNLQAEV.AAVSK..DLVSEKEVNKEEKEEPL	69
NTDB id 222	SPD RS04535 WP 000387330.1	MEAIIEKIKKEYKIIIV.ICTGLGLLVGGFLLKPAPQTPVKETNLQAEV.AAVSK..DLVSEKEVNKEEKEEPL	69
NTDB id 188	SPR RS04295 WP 000387330.1	MEAIIEKIKKEYKIIIV.ICTGLGLLVGGFLLKPAPQTPVKETNLQAEV.AAVSK..DLVSEKEVNKEEKEEPL	69
NTDB id 105	BSU 25590 NP 390437.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG....KNKE....PVKQAVPTE....TENTVVVKQEANNDE	57
NTDB id 1069	ABD1 RS03060 WP 043960841.1		0
NTDB id 36	MW RS08230 WP 001793467.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK	80
NTDB id 20	SA RS08005 WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFENKDTALKQSTSENSSLSKLEDVQVKDGDNSK	80
NTDB id 1014	ACIAD RS13855 WP 004924483.1		0
NTDB id 1127	NGFG RS10560 WP 003703428.1	MSRGGATP	8
NTDB id 1126	NGFG RS09375 WP 003703428.1	MSRGGATP	8
NTDB id 1125	NGFG RS07215 WP 003703428.1	MSRGGATP	8
NTDB id 1108	NGFG RS06525 WP 003703428.1	MSRGGATP	8
NTDB id 105213	R8574 RS00055 WP 317647666.1		0
NTDB id 1242	Cj0011c YP 002343483.1		0
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		EQDLITVDYKGAVKSPGIIYDLTVGSRVNDAYQKAGGLTEQADKSLNLAQKVSDEAL...PTIPLLANAETAP....	
NTDB id 1159	ABDM36 RS04765 WP 001166105.1	MQIKTK.IVTLFLSLCL....PTIPLLANAETAP....	30
NTDB id 1150	A1552VC RS08580 WP 001166105.1	MQIKTK.IVTLFLSLCL....PTIPLLANAETAP....	30
NTDB id 1362	HI 1008 AAC22669.1	MKTLL...FTSVVLG...ALVSSSFAEEKATXQTAQ	31
NTDB id 1382	A4U84 RS07375 WP 062924234.1	MKKL.SRYTFSLLFG....LFSATTFAEEKVTTSTEH	32
NTDB id 595	KW2 RS08725 WP 021037687.1	NKNEIMVDLKGAIVAKPNVYQISSDERLVDLIRQAGGFTDQADQKSINLSAKLKDEEV...IYVPKVGESSSSE.....	135
NTDB id 521	SMSK321 RS04960 WP 000443804.1	EQDLITVDYKGAVKSPGIYDLVSGSRVNDAYQKAGGLTEQADSKSLNLAQKVSDEAL...YVVPKCGEESASQ.....	139
NTDB id 493	SM12261 RS04300 WP 000387351.1	EQDLITVDYKGAVKSPGIYDLVSGSRVNDAYQKAGGLTEQADSKSLNLAQKVSDEAL...YVVPKCGEESASQ.....	139
NTDB id 153	SP RS04730 WP 000387344.1	EQDLITVDYKGAVKSPGIYDLVSGSRVNDAYQKAGGLTEQADSKSLNLAQKVSDEAL...YVVPKCGEESASQ.....	139
NTDB id 263	KZH43 RS04195 WP 000387330.1	EQDLITVDYKGAVKSPGIYDLVSGSRVNDAYQKAGGLTEQADSKSLNLAQKVSDEAL...YVVPKCGEESASQ.....	139
NTDB id 222	SPD RS04535 WP 000387330.1	EQDLITVDYKGAVKSPGIYDLVSGSRVNDAYQKAGGLTEQADSKSLNLAQKVSDEAL...YVVPKCGEESASQ.....	139
NTDB id 188	SPR RS04295 WP 000387330.1	EQDLITVDYKGAVKSPGIYDLVSGSRVNDAYQKAGGLTEQADSKSLNLAQKVSDEAL...YVVPKCGEESASQ.....	139
NTDB id 105	BSU 25590 NP 390437.1	SNETIVIDIKGAVQHPGVYEMRTGDRVSAIEKAGGTSEQADEAQVNLAAILQDGTV...YYIPKKGEEETAVQ.....	127
NTDB id 1069	ABD1 RS03060 WP 043960841.1	MQYSMRFWKN.....KYFVLIIMLC LGVISPSVCAQSFDQNFQEWKVKQ	43
NTDB id 36	MW RS08230 WP 001793467.1	NKGPVYVDYKGAVKHPNVYKMTSKDRVVDLLDKAQL.LEDADVSQINLSEKLTQKML...IFIPHKG.....Q	144
NTDB id 20	SA RS08005 WP 001802022.1	NKGPVYVDYKGAVKHPNVYKMTSKDRVVDLLDKAQL.LDDADVSRINLSEKLTQKML...IFIPHKG.....Q	144
NTDB id 1014	ACIAD RS13855 WP 004924483.1	MSIRHFFT...FFWAT.....LLTLFSM....QIVFAQGFDDQQYDAWKTTQ	39
NTDB id 1127	NGFG RS10560 WP 003703428.1	...YRFLIRHIVARCGLLFATLKGK...TMKKMFVLF...LF.....	44
NTDB id 1126	NGFG RS09375 WP 003703428.1	...YRFLIRHIVARCGLLFATLKGK...TMKKMFVLF...LF.....	44
NTDB id 1125	NGFG RS07215 WP 003703428.1	...YRFLIRHIVARCGLLFATLKGK...TMKKMFVLF...LF.....	44
NTDB id 1108	NGFG RS06525 WP 003703428.1	...YRFLIRHIVARCGLLFATLKGK...TMKKMFVLF...LF.....	44
NTDB id 105213	R8574 RS00055 WP 317647666.1	MKKLLFLF....FA.....	10
NTDB id 1242	Cj0011c YP 002343483.1	MKKLLFLF....FA.....	10
consensus			

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	AAQVEEGIVITVNINTASAEELATLLKGI	GLKKAQAI	VDYREANGP	FTHI	DDLT	NVK	87	
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	AAQVEEGIVITVNINTASAEELATLLKGI	GLKKAQAI	VDYREANGP	FTHI	DDLT	NVK	87	
NTDB id 1362	HI 1008	AAC22669.1		SVVTTQ.....AEAQVAPAVVSDKLNINTATASEIQKSL	LTGIGAKKAAE	IVQYREKHG	NFXNAEQ	LLVQ		96	
NTDB id 1382	A4U84	RS07375	WP 062924234.1	TPVVMQ.....Q.VAATQKVNANV	VNINTATASEIQDKLVG	IGAKKAQAI	VEYREKNGK	FLNVEQL	TEVS	96	
NTDB id 595	KW2	RS08725	WP 021037687.1	STDSPTGSSVSNQISTTSGPK	VNINKADLT	ELQ.KLTGIGQKKAQDI	IDFRMKNGD	FKSIEDL	GKVS	201	
NTDB id 521	SMSK321	RS04960	WP 000443804.1	HTGSGAP.....SSTS	KDKKINLNKASLEELK.QVKGLGGKRAQDI	IDHREANGK	FKSVDEL	LKKVS		199	
NTDB id 493	SM12261	RS04300	WP 000387351.1	QAGPGTA.....SSTS	KEKKVNLNKA	SLEELK.QVKGLGGKRAQDI	IDHREANGK	FKSVDEL	LKKVS	199	
NTDB id 153	SP	RS04730	WP 000387344.1	QTGSGTA.....SSTS	KEKKVNLNKA	SLEELK.QVKGLGGKRAQDI	IDHREANGK	FKSVDEL	LKKVS	199	
NTDB id 263	KZH43	RS04195	WP 000387330.1	QTGLGTA.....SSISKEKK	VNLNKA	SLEELK.QVKGLGGKRAQDI	IDHREANGK	FKSVDEL	LKKVS	199	
NTDB id 222	SPD	RS04535	WP 000387330.1	QTGLGTA.....SSISKEKK	VNLNKA	SLEELK.QVKGLGGKRAQDI	IDHREANGK	FKSVDEL	LKKVS	199	
NTDB id 188	SPR	RS04295	WP 000387330.1	QTGLGTA.....SSISKEKK	VNLNKA	SLEELK.QVKGLGGKRAQDI	IDHREANGK	FKSVDEL	LKKVS	199	
NTDB id 105	BSU 25590	NP 390437.1		Q.....GGGG..SVQSDGGKGAL	VNINTATLEELQ.GISGVGPSKAEAI	IAYREENGR	FTIED	ITKVS		188	
NTDB id 1069	ABD1	RS03060	WP 043960841.1	QMYDQKLNISKSSHSNSSKIS..QTKNFNDSTGQ	IHLNQANVNEFQ.QLKGIGEKKQA	IVEYRQKNGS	FKNIDEI	KNVK		120	
NTDB id 36	MW	RS08230	WP 001793467.1	KNVEPQIGVNSV.....HVKNGNTNNTK	VNLTASVSELM.SVPGVGGAKANA	IVEYRNQQGAFQE	IDDL	LKKVK		212	
NTDB id 20	SA	RS08005	WP 001802022.1	KNVEPQIEVNSV.....HVKNGNTNNTK	VNLTASVSELM.SVPGVGGAKANA	IVEYRNQQGAFQE	IDDL	LKKVK		212	
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	KAHDTRLNSSASHHSLS.....KPTQQSGTG	VKNINSATAKELQ.QLHGVGEKKALA	IVEYRQYQGFAS	VDDL	LQKVK		112	
NTDB id 1127	NGFG	RS10560	WP 003703428.1	SCAFSLAAVN	INAASQ	QELE.ALPGIGPAKAKAIAEYRAQNGAFKS	VDDL	LKVK		97	
NTDB id 1126	NGFG	RS09375	WP 003703428.1	SCAFSLAAVN	INAASQ	QELE.ALPGIGPAKAKAIAEYRAQNGAFKS	VDDL	LKVK		97	
NTDB id 1125	NGFG	RS07215	WP 003703428.1	SCAFSLAAVN	INAASQ	QELE.ALPGIGPAKAKAIAEYRAQNGAFKS	VDDL	LKVK		97	
NTDB id 1108	NGFG	RS06525	WP 003703428.1	SCAFSLAAVN	INAASQ	QELE.ALPGIGPAKAKAIAEYRAQNGAFKS	VDDL	LKVK		97	
NTDB id 105213	R8574	RS00055	WP 317647666.1	LTAFLFGA	VNINTATL	KELK.SLNGIGEAKAKAILKYRKE.ANFTS	IDDL	LKKVK		62	
NTDB id 1242	Cj0011c	YP 002343483.1		LTAFLFGA	VNINTATL	KELK.SLNGIGEAKAKAILEYRKE.ANFTS	IDDL	LKKVK		62	
consensus								***! !*! !*	* !*! **!***!***!	** ! ***** *	

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	GIGKATLEKLNDRRIIF	103
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	GIGKATLEKLNDRRIIF	103
NTDB id 1362	HI 1008	AAC22669.1		GIGKATLEKLNDRRIIF	112
NTDB id 1382	A4U84	RS07375	WP 062924234.1	GIGKATLEKLNDRRIIF	113
NTDB id 595	KW2	RS08725	WP 021037687.1	GFGDKTLEKLNDRRIIF	218
NTDB id 521	SMSK321	RS04960	WP 000443804.1	GIGAKTIEKLKDYVTVD	216
NTDB id 493	SM12261	RS04300	WP 000387351.1	GIGAKTIEKLKDYVTVD	216
NTDB id 153	SP	RS04730	WP 000387344.1	GIGGKTIEKLKDYVTVD	216
NTDB id 263	KZH43	RS04195	WP 000387330.1	GIGGKTIEKLKDYVTVD	216
NTDB id 222	SPD	RS04535	WP 000387330.1	GIGGKTIEKLKDYVTVD	216
NTDB id 188	SPR	RS04295	WP 000387330.1	GIGGKTIEKLKDYVTVD	216
NTDB id 105	BSU 25590	NP 390437.1		GIGKATLEKLNDRRIIF	205
NTDB id 1069	ABD1	RS03060	WP 043960841.1	GIGPAIFEKLNDRRIIF	136
NTDB id 36	MW	RS08230	WP 001793467.1	GFGSKTFDKLKSFTI	228
NTDB id 20	SA	RS08005	WP 001802022.1	GFGSKTFDKLKSFTI	228
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	GIGKATLEKLNDRRIIF	128
NTDB id 1127	NGFG	RS10560	WP 003703428.1	GIGPAVLAKLKDQASVGAPAPKGPVLPVAVKK	131
NTDB id 1126	NGFG	RS09375	WP 003703428.1	GIGPAVLAKLKDQASVGAPAPKGPVLPVAVKK	131
NTDB id 1125	NGFG	RS07215	WP 003703428.1	GIGPAVLAKLKDQASVGAPAPKGPVLPVAVKK	131
NTDB id 1108	NGFG	RS06525	WP 003703428.1	GIGPAVLAKLKDQASVGAPAPKGPVLPVAVKK	131
NTDB id 105213	R8574	RS00055	WP 317647666.1	GIGDKLFEKLNDRRIIF	79
NTDB id 1242	Cj0011c	YP 002343483.1		GIGDKLFEKLNDRRIIF	79
consensus				!*! ***** *	

 non conserved
 similar
 $\geq 50\%$ conserved