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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSVSEKEVKKEEKEEPL.....	0
NTDB id 1150	A1552VC	RS08580	WP 001166105.1		0
NTDB id 1395	DSB67	RS04445	WP 010649155.1		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.LLVVICALIAGGIFYIFTNSPKPAETLSVEN....LSSS...STKSSVSKFNSSSSEK	65
NTDB id 521	SMSK321	RS04960	WP 000443804.1	MESIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPHTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV	69
NTDB id 493	SM12261	RS04300	WP 000387351.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSVSEKEVKKEEKEEPL	69
NTDB id 263	KZH43	RS04195	WP 000387330.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 153	SP	RS04730	WP 000387344.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	69
NTDB id 1069	ABD1	RS03060	WP 043960841.1		0
NTDB id 1041	HON27	RS14740	WP 005124713.1		0
NTDB id 36	MW	RS08230	WP 001793467.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVVLIGFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK	80
NTDB id 20	SA	RS08005	WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVVLIGFIFWRQDDYTSRNFENKDTALKQSTSENSSLSKLEDVQVKDGDNSK	80
NTDB id 105	BSU 25590	NP 390437.1		MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVVKQEANNDE	57
NTDB id 1014	ACIAD	RS13855	WP 004924483.1		0
NTDB id 1127	NGFG	RS10560	WP 003703428.1	MSRGG	5
NTDB id 1126	NGFG	RS09375	WP 003703428.1	MSRGG	5
NTDB id 1125	NGFG	RS07215	WP 003703428.1	MSRGG	5
NTDB id 1108	NGFG	RS06525	WP 003703428.1	MSRGG	5
NTDB id 138771	RC29	RS08770	WP 002855574.1		0
NTDB id 1242	Cj0011c	YP 002343483.1			0
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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	EQDLITVDYKGAVKSPGYYLITYSKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYYPKKEEAY	33
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	MQIKT.KIVTFLFLSLCLPTLPLLANAEETAPAAQ.....	33
NTDB id 1395	DSB67	RS04445	WP 010649155.1	MKWMLTLCLLILAPMSWAE.TKTKAD.....	25
NTDB id 1362	HI 1008	AAC22669.1		MKT.L.FTSVVLGALVSSSFEEKATXQTAQSVV.....TTQA.....	38
NTDB id 1382	A4U84	RS07375	WP 062924234.1	MKK.LSRYTFSLLFG.LFSATTFAEEKVTTSTEHTPV.....VMQQ.....	39
NTDB id 595	KW2	RS08725	WP 021037687.1	NKNEIMVDLKGAVAKPNVYQISSDERLVDLI.....RQAGGFTDQADQKSINLSAKLKDEEVIYVPKVGESS	133
NTDB id 521	SMSK321	RS04960	WP 000443804.1	EQDLITVDVKGAVKSPGIYDLVSGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEA	137
NTDB id 493	SM12261	RS04300	WP 000387351.1	EQDLITVDVKGAVKSPGIYDLVSGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEA	137
NTDB id 263	KZH43	RS04195	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLVSGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEA	137
NTDB id 222	SPD	RS04535	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLVSGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEA	137
NTDB id 188	SPR	RS04295	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLVSGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEA	137
NTDB id 153	SP	RS04730	WP 000387344.1	EQDLITVDVKGAVKSPGIYDLVSGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEA	137
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MQYSMRFWKN...K.YFVLLIMLCGLVISPSVCAQSFQDNFQEWKVKQQM..YDQK.....	49
NTDB id 1041	HON27	RS14740	WP 005124713.1	MQYSMRFWKN...K.YFLLIMLCGLVISPSVCAQSFQDNFQEWKAKQQM..YDQK.....	49
NTDB id 36	MW	RS08230	WP 001793467.1	NKGPVYVDVKGAVKHPNVYKMTSKDRVVD.LL.....DKAQLLEDADVSRINLSEKLTQKMFIPHKGQKNV	147
NTDB id 20	SA	RS08005	WP 001802022.1	NKGPVYVDVKGAVKHPNVYKMTSKDRVVD.LL.....DKAQLLEDADVSRINLSEKLTQKMFIPHKGQKNV	147
NTDB id 105	BSU 25590	NP 390437.1		SNETIVIDIKGAVQHPGVYEM.RTGDRVS.....QAI...EKAGGTSEQADEAQVNLAELIQDGTVVYIPKKGEETA	125
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	MSIRHFFT...FFWAT.....LLTLFSMQI...VFAQGGFDQYDQAW.....KTQQKAHDTR	45
NTDB id 1127	NGFG	RS10560	WP 003703428.1	ATPYRFLLRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
NTDB id 1126	NGFG	RS09375	WP 003703428.1	ATPYRFLLRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
NTDB id 1125	NGFG	RS07215	WP 003703428.1	ATPYRFLLRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
NTDB id 1108	NGFG	RS06525	WP 003703428.1	ATPYRFLLRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
NTDB id 138771	RC29	RS08770	WP 002855574.1	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	VEEGIVITVNINTASAEELATLLKGI	GLKKAQAI	VDYREANGP	FTH	IDDLTNVKGIG	EATVR	95			
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	VEEGIVITVNINTASAEELATLLKGI	GLKKAQAI	VDYREANGP	FTH	IDDLTNVKGIG	EATVR	95			
NTDB id 1395	DSB67	RS04445	WP 010649155.1	KYEGIEITVNVNSATAQEIATLLIGI	GEKKAQD	IVEYRNEHG	PFKTAADL	TKVKGIG	EATVR	87			
NTDB id 1362	HI 1008	AAC22669.1	EAQVAPAVVSDKLNINTATASEIQKSL	TGIGAKKA	EAI	VQYREKHGN	FXNAEQ	LLEVGIG	KATLE	104			
NTDB id 1382	A4U84	RS07375	WP 062924234.1	VAATQKVNANVNVINTATASEIQDKL	VGIGAKKA	QAI	IVEYREKNG	KFLNVEQ	LTEVSGIG	KATLE	104		
NTDB id 595	KW2	RS08725	WP 021037687.1	SESTDSPTG...SSVSNQISTTSGPKVNINKA	DLTELQK	.LTGIGQKKAQ	DI	DFRMKNGD	FKSIEDL	GKVS	GFGDKTLE	209	
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SQHTGSGAP.....SSTS	SKDKK	INLNKASLEEL	KQ	.VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGAKTIE	207
NTDB id 493	SM12261	RS04300	WP 000387351.1	SQQAGPGTA.....SSTS	KEKKVNLNKASLEEL	KQ	.VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGAKTIE	207	
NTDB id 263	KZH43	RS04195	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEEL	KQ	.VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGGKTIE	207		
NTDB id 222	SPD	RS04535	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEEL	KQ	.VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGGKTIE	207		
NTDB id 188	SPR	RS04295	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEEL	KQ	.VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGGKTIE	207		
NTDB id 153	SP	RS04730	WP 000387344.1	SQQTGSGTA.....SSTS	KEKKVNLNKASLEEL	KQ	.VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGGKTIE	207	
NTDB id 1069	ABD1	RS03060	WP 043960841.1	LNISKSSHSNSSKISQTKNFNDSTGQIHLN	QANVNEFQQ	.LKGIGEKKAQAI	IVEYRQKNGS	FKNIDEI	KNVKGIG	PAIFE	128		
NTDB id 1041	HON27	RS14740	WP 005124713.1	LNITKSSHSNGSKISQTKNFNDSTGQIHLN	QANVNEFQQ	.LKGIGEKKAQAI	IVEYRQKNGS	FKNIDEI	KNVKGIG	PAIFE	128		
NTDB id 36	MW	RS08230	WP 001793467.1	EP....QIGVNS..VHVKNGNTNNTKVN	LNTASVSELMS	.VPGVGQAKANA	IVEYRNQQGAF	QEI	DDLKVKVGF	SGSKTFD	220		
NTDB id 20	SA	RS08005	WP 001802022.1	EP....QIEVNS..VHVKNGNTNNTKVN	LNTASVSELMS	.VPGVGQAKANA	IVEYRNQQGAF	QEI	DDLKVKVGF	SGSKTFD	220		
NTDB id 105	BSU 25590	NP 390437.1		V....QQGGGGS..V..QSDGGKGALVN	INTATLEELQG	.ISGVGPSKAEAI	IAYREENG	RFTIED	ITKVS	GIG	KSFE	196	
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	LNSSASHHSLSK..P..TQQSGTG	GVKVNINSATAKELQQ	.LHGVGEKKALAI	IVEYRQYQGF	ASVDDL	QKVKGIG	PKFIE	120		
NTDB id 1127	NGFG	RS10560	WP 003703428.1	SCAFSLAAVNINAASQQELEA	.LPGIGPAKAKAIAEYRAQNGAFKSVDDL	IKVKGIG	PAVLA	105					
NTDB id 1126	NGFG	RS09375	WP 003703428.1	SCAFSLAAVNINAASQQELEA	.LPGIGPAKAKAIAEYRAQNGAFKSVDDL	IKVKGIG	PAVLA	105					
NTDB id 1125	NGFG	RS07215	WP 003703428.1	SCAFSLAAVNINAASQQELEA	.LPGIGPAKAKAIAEYRAQNGAFKSVDDL	IKVKGIG	PAVLA	105					
NTDB id 1108	NGFG	RS06525	WP 003703428.1	SCAFSLAAVNINAASQQELEA	.LPGIGPAKAKAIAEYRAQNGAFKSVDDL	IKVKGIG	PAVLA	105					
NTDB id 138771	RC29	RS08770	WP 002855574.1	LTAFLFGAVNINTATL	KELKS	.LNGIGEAKAKAILEYRKE	.ANFTS	IDDLKVKV	GIGDKLFE	70			
NTDB id 1242	Cj0011c	YP 002343483.1		LTAFLFGAVNINTATL	KELKS	.LNGIGEAKAKAILEYRKE	.ANFTS	IDDLKVKV	GIGDKLFE	70			
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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	NNAARILL	103		
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	NNAARILL	103		
NTDB id 1395	DSB67	RS04445	WP 010649155.1	KNEDRILL	95		
NTDB id 1362	HI 1008	AAC22669.1		KNRDRIIF	112		
NTDB id 1382	A4U84	RS07375	WP 062924234.1	KNRDCIVIE	113		
NTDB id 595	KW2	RS08725	WP 021037687.1	KLKDEISID	218		
NTDB id 521	SMSK321	RS04960	WP 000443804.1	KLKDYVTVD	216		
NTDB id 493	SM12261	RS04300	WP 000387351.1	KLKDYVTVD	216		
NTDB id 263	KZH43	RS04195	WP 000387330.1	KLKDYVTVD	216		
NTDB id 222	SPD	RS04535	WP 000387330.1	KLKDYVTVD	216		
NTDB id 188	SPR	RS04295	WP 000387330.1	KLKDYVTVD	216		
NTDB id 153	SP	RS04730	WP 000387344.1	KLKDYVTVD	216		
NTDB id 1069	ABD1	RS03060	WP 043960841.1	KNKSRLIAL	136		
NTDB id 1041	HON27	RS14740	WP 005124713.1	KNKSRLIAL	136		
NTDB id 36	MW	RS08230	WP 001793467.1	KLKSYFTI	228		
NTDB id 20	SA	RS08005	WP 001802022.1	KLKSYFTI	228		
NTDB id 105	BSU 25590	NP 390437.1		KIKSSIIVK	205		
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	KNRDRLAI	128		
NTDB id 1127	NGFG	RS10560	WP 003703428.1	KLKDQASVGAPAPKGP	PAKPVLP	PAVKK	131
NTDB id 1126	NGFG	RS09375	WP 003703428.1	KLKDQASVGAPAPKGP	PAKPVLP	PAVKK	131
NTDB id 1125	NGFG	RS07215	WP 003703428.1	KLKDQASVGAPAPKGP	PAKPVLP	PAVKK	131
NTDB id 1108	NGFG	RS06525	WP 003703428.1	KLKDQASVGAPAPKGP	PAKPVLP	PAVKK	131
NTDB id 138771	RC29	RS08770	WP 002855574.1	KIKNDITVE	79		
NTDB id 1242	Cj0011c	YP 002343483.1		KIKNDITIE	79		
consensus				*****			

 non conserved
 similar
 $\geq 50\%$ conserved