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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	MESIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPHTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV	69
NTDB id 493	SM12261	RS04300	WP 000387351.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSVSEKEVKKEEKEEPL	69
NTDB id 263	KZH43	RS04195	WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKEEKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKEEKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKEEKEEPL	69
NTDB id 153	SP	RS04730	WP 000387344.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDSSTEKEVKKEEKEEPL	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...TENTVVKQEANNDE	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 138428	RC44	RS08785	WP 002855574.1		0
NTDB id 1242	Cj0011c	YP 002343483.1			0
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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	EQDLITVDYKGAVKSPGYYLRTYKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYVPKGEESA.....	33
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	MQIKT.KIVTLFLSLCLPTLPLLANAEETAPAAQ.....	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	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 493	SM12261	RS04300	WP 000387351.1	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 263	KZH43	RS04195	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 222	SPD	RS04535	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 188	SPR	RS04295	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 153	SP	RS04730	WP 000387344.1	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MQYSMRFWKN...K.YFVLIMLCGLVISPSVCAQSFQDNFQEWKVKQQM..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.....DKAQLLEDADVSRINLSEKLTQDKMIFIPHKGQKNV	147
NTDB id 20	SA	RS08005	WP 001802022.1	NKGPVYVDVKGAVKHPNVYKMTSKDRVVD.LL.....DKAQLLEDADVSRINLSEKLTQDKMIFIPHKGQKNV	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...VFAQGGFDQQYDAW.....KTQQKAHDTR	45
NTDB id 1127	NGFG	RS10560	WP 003703428.1	ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
NTDB id 1126	NGFG	RS09375	WP 003703428.1	ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
NTDB id 1125	NGFG	RS07215	WP 003703428.1	ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
NTDB id 1108	NGFG	RS06525	WP 003703428.1	ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
NTDB id 138428	RC44	RS08785	WP 002855574.1	MKKLLFLF..FA.....	10
NTDB id 1242	Cj0011c	YP 002343483.1		MKKLLFLF..FA.....	10
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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	PFKTAADLT	TKVKGIG	EATVR	87	
NTDB id 1362	HI 1008	AAC22669.1	EAQVAPAVVSDKLNINTATASEIQKSL	TGIGAKKA	EAI	VQYREKHG	NFXNAE	QQLLEVQ	GIGKATLE	104	
NTDB id 1382	A4U84	RS07375	WP 062924234.1	VAATQKVNANV	VNINTATASEIQDKLVGIGAKKAQAI	IVEYREKNGK	FLNVEQLTEV	SGIGKATLE		104	
NTDB id 595	KW2	RS08725	WP 021037687.1	SESTDSPTG...SSVSNQISTTSGPKVNINKAD	ITELQK.LTGIGQKKAQDI	IDFRMKNGD	FKSIEDLG	KVSGFG	DKTLE	209	
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SQHTGSGAP.....SSTS	SKDKKINLNKASLEELKQ.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	AKTIE	207	
NTDB id 493	SM12261	RS04300	WP 000387351.1	SQQAGPGTA.....SSTS	KEKKVNLNKASLEELKQ.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	AKTIE	207	
NTDB id 263	KZH43	RS04195	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEELKQ	.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	GKTIE	207	
NTDB id 222	SPD	RS04535	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEELKQ	.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	GKTIE	207	
NTDB id 188	SPR	RS04295	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEELKQ	.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	GKTIE	207	
NTDB id 153	SP	RS04730	WP 000387344.1	SQQTGSGTA.....SSTS	KEKKVNLNKASLEELKQ.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	GKTIE	207	
NTDB id 1069	ABD1	RS03060	WP 043960841.1	LNISKSSHSNSSKISQTKNFNDSTGQIHLNQAN	VNEFQQ.LKGIGEKKAQAI	IVEYRQKNGS	FKNIDEI	KNVKGIG	PAIFE	128	
NTDB id 1041	HON27	RS14740	WP 005124713.1	LNITKSSHSNGSKISQTKNFNDSTGQIHLNQAN	VNEFQQ.LKGVGEKKAQAI	IVEYRQKNGS	FKNIDEI	KNVKGIG	PAIFE	128	
NTDB id 36	MW	RS08230	WP 001793467.1	EP....QIGVNS..VHVKNGNTNNTKVN	LNTASVSELMS.VPGVGQAKANA	IVEYRNQQGAFQE	IDDLK	KKVKG	FGSKTFD	220	
NTDB id 20	SA	RS08005	WP 001802022.1	EP....QIEVNS..VHVKNGNTNNTKVN	LNTASVSELMS.VPGVGQAKANA	IVEYRNQQGAFQE	IDDLK	KKVKG	FGSKTFD	220	
NTDB id 105	BSU 25590	NP 390437.1		V....QQGGGGS..V..QSDGGKGALVNINTAT	LEELQG.ISGVGPSKAEAI	IAYREENGR	FQTI	EDIT	KVSGIG	KSFE	196
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	LNSSASHHSLSK..P..TQQSGTG	VKNINSATAKELQQ.LHGVGEKKALAI	IVEYRQYQK	FASVDDL	QKVKGIG	PKFIE	120	
NTDB id 1127	NGFG	RS10560	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIG	PAKAKAIAEYRAQNGAFKSVDDL	IKVKGIG	PAVLA			105	
NTDB id 1126	NGFG	RS09375	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIG	PAKAKAIAEYRAQNGAFKSVDDL	IKVKGIG	PAVLA			105	
NTDB id 1125	NGFG	RS07215	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIG	PAKAKAIAEYRAQNGAFKSVDDL	IKVKGIG	PAVLA			105	
NTDB id 1108	NGFG	RS06525	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIG	PAKAKAIAEYRAQNGAFKSVDDL	IKVKGIG	PAVLA			105	
NTDB id 138428	RC44	RS08785	WP 002855574.1	LTAFLFGAVNINTATL	KELKS.LNGIGEAKAKAILEYRKE.ANFTS	IDDLK	KKVKGIG	DKLFE		70	
NTDB id 1242	Cj0011c	YP 002343483.1		LTAFLFGAVNINTATL	KELKS.LNGIGEAKAKAILEYRKE.ANFTS	IDDLK	KKVKGIG	DKLFE		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	KLKDQASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1126	NGFG	RS09375	WP 003703428.1	KLKDQASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1125	NGFG	RS07215	WP 003703428.1	KLKDQASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1108	NGFG	RS06525	WP 003703428.1	KLKDQASVGAPAPKGPAPVLPVAVKK	131
NTDB id 138428	RC44	RS08785	WP 002855574.1	KIKNDITVE.....	79
NTDB id 1242	Cj0011c	YP 002343483.1		KIKNDITIE.....	79
consensus				**** *	

 non conserved
 similar
 $\geq 50\%$ conserved