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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSSEKEVSKKEEKEEPL.....	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...VVAISKDLVSEKEVNKKEEKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKKEEKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKKEEKEEPL	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...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 153010	AEI11	RS08480	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.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.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 493	SM12261	RS04300	WP 000387351.1	EQDLITVDVKGAVKSPGIYDLVSGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 263	KZH43	RS04195	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLVSGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 222	SPD	RS04535	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLVSGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 188	SPR	RS04295	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLVSGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 153	SP	RS04730	WP 000387344.1	EQDLITVDVKGAVKSPGIYDLVSGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MQYSMRFWKN...K.YFVLIMLCGLVISPSVCAQSFDQNFQEWKVKQQM..YDQK.....	49
NTDB id 1041	HON27	RS14740	WP 005124713.1	MQYSMRFWKN...K.YFLLIMLCGLVISPSVCAQSFDQNFQEWKAKQQM..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 153010	AEI11	RS08480	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	PFKTAADL	TKVKGIG	EATVR	87
NTDB id 1362	HI 1008	AAC22669.1	EAQVAPAVVSDKLNINTATASEIQKS	LTGIGAKKA	EAI	VQYREKHGN	FXNAE	QLELVQG	GIGKATLE	104
NTDB id 1382	A4U84	RS07375	WP 062924234.1	VAATQKVNANV	VNINTATASEIQDK	LVGIGAKKAQAI	IVEYREKNGK	FLNVEQL	TEVSGIGKATLE	104
NTDB id 595	KW2	RS08725	WP 021037687.1	SESTDSPTG...SSVSNQISTTSGPKVNIN	KADLT	TELQK.LTGIGQKKAQD	I	DFRMKNGD	FKSIEDL	95
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SQHTGSGAP.....SSTS	SKDKKINLN	NKASLEELKQ.VKGLGGKRAQD	I	IDHREANGK	FKSVDEL	207
NTDB id 493	SM12261	RS04300	WP 000387351.1	SQQAGPGTA.....SSTS	KEKKVNLN	KASLEELKQ.VKGLGGKRAQD	I	IDHREANGK	FKSVDEL	207
NTDB id 263	KZH43	RS04195	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLN	KASLEELKQ.VKGLGGKRAQD	I	IDHREANGK	FKSVDEL	207	
NTDB id 222	SPD	RS04535	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLN	KASLEELKQ.VKGLGGKRAQD	I	IDHREANGK	FKSVDEL	207	
NTDB id 188	SPR	RS04295	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLN	KASLEELKQ.VKGLGGKRAQD	I	IDHREANGK	FKSVDEL	207	
NTDB id 153	SP	RS04730	WP 000387344.1	SQQTGSGTA.....SSTS	KEKKVNLN	KASLEELKQ.VKGLGGKRAQD	I	IDHREANGK	FKSVDEL	207
NTDB id 1069	ABD1	RS03060	WP 043960841.1	LNISKSSHSNSSKISQTKNFNDSTGQ	IHLNQANVNE	FQQ.LKGIGEKKAQAI	IVEYRQKNGS	FKNIDEI	KNVKGIGPAIFE	128
NTDB id 1041	HON27	RS14740	WP 005124713.1	LNITKSSHSNGSKISQTKNFNDSTGQ	IHLNQANVNE	FQQ.LKGIGEKKAQAI	IVEYRQKNGS	FKNIDEI	KNVKGIGPAIFE	128
NTDB id 36	MW	RS08230	WP 001793467.1	EP....QIGVNS..VHVKNGNTNNTK	VNLNTASVSEL	MS.VPGVGQAKANA	IVEYRNQQGAF	QEIDDL	KKVKGFGSKTFD	220
NTDB id 20	SA	RS08005	WP 001802022.1	EP....QIEVNS..VHVKNGNTNNTK	VNLNTASVSEL	MS.VPGVGQAKANA	IVEYRNQQGAF	QEIDDL	KKVKGFGSKTFD	220
NTDB id 105	BSU 25590	NP 390437.1		V....QQGGGGS..V..QSDGGKGALVN	INTATLEEL	QG.ISGVGPSKAEAI	IAYREENG	RFQTI	EDITKVS	196
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	LNSSASHHSLSK..P..TQQSGTG	VKNINSAT	AKELQQ.LHGVGEKKALAI	IVEYRQYQK	FASVDDL	QKVKGIGPKFIE	120
NTDB id 1127	NGFG	RS10560	WP 003703428.1	SCAFSLAAVNINAASQ	QLEA.LPGIGPAKAKA	IAEYRAQNGAF	KSVD	DLIKVKGIG	PAVLA	105
NTDB id 1126	NGFG	RS09375	WP 003703428.1	SCAFSLAAVNINAASQ	QLEA.LPGIGPAKAKA	IAEYRAQNGAF	KSVD	DLIKVKGIG	PAVLA	105
NTDB id 1125	NGFG	RS07215	WP 003703428.1	SCAFSLAAVNINAASQ	QLEA.LPGIGPAKAKA	IAEYRAQNGAF	KSVD	DLIKVKGIG	PAVLA	105
NTDB id 1108	NGFG	RS06525	WP 003703428.1	SCAFSLAAVNINAASQ	QLEA.LPGIGPAKAKA	IAEYRAQNGAF	KSVD	DLIKVKGIG	PAVLA	105
NTDB id 153010	AEI11	RS08480	WP 002855574.1	LTAFLFGA	VNINTATL	KELKS.LNGIGEAKAKA	ILEYRKE.ANFTS	IDDL	KKVKGIGDKLFE	70
NTDB id 1242	Cj0011c	YP 002343483.1		LTAFLFGA	VNINTATL	KELKS.LNGIGEAKAKA	ILEYRKE.ANFTS	IDDL	KKVKGIGDKLFE	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	PAKPVLPVAVKK	131
NTDB id 1126	NGFG	RS09375	WP 003703428.1	KLKDQASVGAPAPKGP	PAKPVLPVAVKK	131
NTDB id 1125	NGFG	RS07215	WP 003703428.1	KLKDQASVGAPAPKGP	PAKPVLPVAVKK	131
NTDB id 1108	NGFG	RS06525	WP 003703428.1	KLKDQASVGAPAPKGP	PAKPVLPVAVKK	131
NTDB id 153010	AEI11	RS08480	WP 002855574.1	KIKNDITVE.....	79	
NTDB id 1242	Cj0011c	YP 002343483.1		KIKNDITIE.....	79	
consensus				*****		

 non conserved
 similar
 $\geq 50\%$ conserved