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		MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAEVVAISKDLSVEKEVSKKEEKEEPL	
NTDB id 1159	ABDM36 RS04765 WP 001166105.1	.....	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...VVAISKDSVSEKEVVKKEEKEEPL	69
NTDB id 263	KZH43 RS04195 WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 222	SPD RS04535 WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 188	SPR RS04295 WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 153	SP RS04730 WP 000387344.1	MEAIIEKIKEYKIIV.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	.....	5
NTDB id 1126	NGFG RS09375 WP 003703428.1	.....	5
NTDB id 1125	NGFG RS07215 WP 003703428.1	.....	5
NTDB id 1108	NGFG RS06525 WP 003703428.1	.....	5
NTDB id 138533	RC48 RS08495 WP 002855574.1		0
NTDB id 1242	Cj0011c YP 002343483.1		0
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		EQDLITVDYKGAVKSPGYLLDYSSRNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYVPKGEAAV	
NTDB id 1159	ABDM36 RS04765 WP 001166105.1	MQIKT.KIVTIFLSLCLPTLPLLANAEETAPAAQ.....	33
NTDB id 1150	A1552VC RS08580 WP 001166105.1	MQIKT.KIVTIFLSLCLPTLPLLANAEETAPAAQ.....	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	NKNEIMVDLKGAIVAKPNVYQISSDERLVDLI.....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.YFVLIMLCGLVISPSVCAQSFQDNFQEWKVKQQM..YDQK.....	49
NTDB id 1041	HON27 RS14740 WP 005124713.1	MQYSMRFWKN....K.YFVLIMLCGLVISPSVCAQSFQDNFQEWKVKQQM..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	SNETIVIDIKGAVQHHPGVYEM.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	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 138533	RC48 RS08495 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	E	AI	VQYREKHGN	FXNAE	Q	104
NTDB id 1382	A4U84	RS07375	WP 062924234.1	VAATQKVNANV	VNINTATASEIQDKLVGIGAKKAQAI	IVEYREKNGK	FLN	VEQLTEV	SGIGKATLE	104
NTDB id 595	KW2	RS08725	WP 021037687.1	SESTDSPTG...SSVSNQISTTSGPKVNINKAD	ITELQK.LTGIGQKKAQD	I	DFRMKNGD	FKSIE	DLGKVS	209
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SQHTGSGAP.....SSTS	SKDKKINLNKASLEELKQ.VKGLGGKRAQD	I	IDHREANGK	FKSVDEL	KKVSGIGAKTIE	207
NTDB id 493	SM12261	RS04300	WP 000387351.1	SQQAGPGTA.....SSTS	KEKKVNLNKASLEELKQ.VKGLGGKRAQD	I	IDHREANGK	FKSVDEL	KKVSGIGAKTIE	207
NTDB id 263	KZH43	RS04195	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEELKQ	.VKGLGGKRAQD	I	IDHREANGK	FKSVDEL	KKVSGIGGKTIE	207
NTDB id 222	SPD	RS04535	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEELKQ	.VKGLGGKRAQD	I	IDHREANGK	FKSVDEL	KKVSGIGGKTIE	207
NTDB id 188	SPR	RS04295	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEELKQ	.VKGLGGKRAQD	I	IDHREANGK	FKSVDEL	KKVSGIGGKTIE	207
NTDB id 153	SP	RS04730	WP 000387344.1	SQQTGSGTA.....SSTS	KEKKVNLNKASLEELKQ.VKGLGGKRAQD	I	IDHREANGK	FKSVDEL	KKVSGIGGKTIE	207
NTDB id 1069	ABD1	RS03060	WP 043960841.1	LNISKSSHSNSSKISQTKNFNDSTGQ	IHLNQANVNEFQQ.LKGIGEKKAQAI	IVEYRQKNGS	FKN	IDEI	KNVKGIGPAIFE	128
NTDB id 1041	HON27	RS14740	WP 005124713.1	LNITKSSHSNGSKISQTKNFNDSTGQ	IHLNQANVNEFQQ.LKGVGEKKAQAI	IVEYRQKNGS	FKN	IDEI	KNVKGIGPAIFE	128
NTDB id 36	MW	RS08230	WP 001793467.1	EP....QIGVNS..VHVKNGNTNNTK	VNLNTASVSELMS.VPGVGQAKANA	IVEYRNQQGAFQE	IDDL	KKVKG	FGSKTFD	220
NTDB id 20	SA	RS08005	WP 001802022.1	EP....QIEVNS..VHVKNGNTNNTK	VNLNTASVSELMS.VPGVGQAKANA	IVEYRNQQGAFQE	IDDL	KKVKG	FGSKTFD	220
NTDB id 105	BSU 25590	NP 390437.1		V....QQGGGGS..V..QSDGGKGALVNINTAT	LEELQG.ISGVGPSKAE	AI	IAYREENG	R	FQ	196
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	LNSSASHHSLSK..P..TQQSGTG	VKNINSATAKELQQ.LHGVGEKKALAI	IVEYRQYQK	FASVDDL	Q	KKVKGIGPKFIE	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 138533	RC48	RS08495	WP 002855574.1	LTAFLFGA	VNINTATLKLKLS.LNGIGEAKAKAILEYRKE	.ANFTS	IDDL	KKVKGIG	DKLFE	70
NTDB id 1242	Cj0011c	YP 002343483.1		LTAFLFGA	VNINTATLKLKLS.LNGIGEAKAKAILEYRKE	.ANFTS	IDDL	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	KLKDQASVGAPAPKGP	131
NTDB id 1126	NGFG	RS09375	WP 003703428.1	KLKDQASVGAPAPKGP	131
NTDB id 1125	NGFG	RS07215	WP 003703428.1	KLKDQASVGAPAPKGP	131
NTDB id 1108	NGFG	RS06525	WP 003703428.1	KLKDQASVGAPAPKGP	131
NTDB id 138533	RC48	RS08495	WP 002855574.1	KIKNDITVE	79
NTDB id 1242	Cj0011c	YP 002343483.1		KIKNDITIE	79
consensus				**** *	

 non conserved
 similar
 $\geq 50\%$ conserved