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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1395	DSB67	RS04445	WP 010649155.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1362	HI 1008	AAC22669.1		MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1382	A4U84	RS07375	WP 062924234.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 595	KW2	RS08725	WP 021037687.1	MEKILDKLKEYWKIM.LLVVICALIAGGIFYIFTNSPKPAETLSVEN....LSSS...STKSSVSKFNSSSSEK	65
NTDB id 521	SMSK321	RS04960	WP 000443804.1	MESIIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV	69
NTDB id 493	SM12261	RS04300	WP 000387351.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV	69
NTDB id 263	KZH43	RS04195	WP 000387330.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPV	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPV	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPV	69
NTDB id 153	SP	RS04730	WP 000387344.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVNKEEKEEPV	69
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVNKEEKEEPV	0
NTDB id 1041	HON27	RS14740	WP 005124713.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVNKEEKEEPV	0
NTDB id 36	MW	RS08230	WP 001793467.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVVLIGFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK	80
NTDB id 20	SA	RS08005	WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVVLIGFIFWRQDDYTSRNFENKDTALKQSTSENSSLSKVEDVQVKDGDNSK	80
NTDB id 105	BSU 25590	NP 390437.1		MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVKQEANNDE	57
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVKQEANNDE	0
NTDB id 1127	NGFG	RS10560	WP 003703428.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVKQEANNDE	5
NTDB id 1126	NGFG	RS09375	WP 003703428.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVKQEANNDE	5
NTDB id 1125	NGFG	RS07215	WP 003703428.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVKQEANNDE	5
NTDB id 1108	NGFG	RS06525	WP 003703428.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVKQEANNDE	5
NTDB id 302072	DS746	RS00055	WP 002922274.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVKQEANNDE	0
NTDB id 1242	Cj0011c	YP 002343483.1		MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVKQEANNDE	0
consensus				MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVKQEANNDE	

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	EQDLITVDYKGAVKSPGYYLDTYKRYNDKLYLFCML...AKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	33
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	EQDLITVDYKGAVKSPGYYLDTYKRYNDKLYLFCML...AKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	33
NTDB id 1395	DSB67	RS04445	WP 010649155.1	EQDLITVDYKGAVKSPGYYLDTYKRYNDKLYLFCML...AKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	25
NTDB id 1362	HI 1008	AAC22669.1		EQDLITVDYKGAVKSPGYYLDTYKRYNDKLYLFCML...AKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	38
NTDB id 1382	A4U84	RS07375	WP 062924234.1	EQDLITVDYKGAVKSPGYYLDTYKRYNDKLYLFCML...AKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	39
NTDB id 595	KW2	RS08725	WP 021037687.1	NKNEIMVDLKGAVAKPNVYQISSDERLVDLI.....RQAGGFTDQADQKSINLSAKLKDEEVIYVPKVGESSS	133
NTDB id 521	SMSK321	RS04960	WP 000443804.1	EQDLITVDVKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 493	SM12261	RS04300	WP 000387351.1	EQDLITVDVKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 263	KZH43	RS04195	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 222	SPD	RS04535	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 188	SPR	RS04295	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 153	SP	RS04730	WP 000387344.1	EQDLITVDVKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MQYSMRFWKN...K.YFVLIMLCGLVISPSVCAQSFQDNFQEWKVKQQM..YDQKL.....	50
NTDB id 1041	HON27	RS14740	WP 005124713.1	MQYSMRFWKN...K.YFVLIMLCGLVISPSVCAQSFQDNFQEWKVKQQM..YDQKL.....	50
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	ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLFCLM.....	43
NTDB id 1126	NGFG	RS09375	WP 003703428.1	ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLFCLM.....	43
NTDB id 1125	NGFG	RS07215	WP 003703428.1	ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLFCLM.....	43
NTDB id 1108	NGFG	RS06525	WP 003703428.1	ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLFCLM.....	43
NTDB id 302072	DS746	RS00055	WP 002922274.1	MCKLLFLF..F.....	9
NTDB id 1242	Cj0011c	YP 002343483.1		MCKLLFLF..F.....	9
consensus				MCKLLFLF..F.....	

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	VEEGIVITVNINTASAEELATLLKGI	GLKKAQAI	VDYREANGP	FTH	IDDL	TNVKGIGEAT	VR	95	
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	VEEGIVITVNINTASAEELATLLKGI	GLKKAQAI	VDYREANGP	FTH	IDDL	TNVKGIGEAT	VR	95	
NTDB id 1395	DSB67	RS04445	WP 010649155.1	KYEGIEITVNVNSATAQEIATLLIGI	GEKKAQD	IVEYRNEHG	PFKTAAD	LTKVKGIGEAT	VR	87		
NTDB id 1362	HI 1008	AAC22669.1	EAQVAPAVVSDKLNINTATASEIQKSL	TGIGAKKA	EAI	VQYREKHG	NFXNAE	QLELVQGIGKAT	LE	104		
NTDB id 1382	A4U84	RS07375	WP 062924234.1	VAATQKVNANVVNINTATASEIQDKL	VGIGAKKAQAI	IVEYREKNGK	FLNVEQ	LTEVSGIGKAT	LE	104		
NTDB id 595	KW2	RS08725	WP 021037687.1	SESTDSPTG...SSVSNQISTTSGPKVNINKAD	LTELQK.LTGIGQKKAQDI	IDFRMKN	GD	FKSIEDL	GKVS	GFGDKTLE	209	
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SQHTGSGAP.....SSTS	SKDKKINLNKASLEELKQ.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	LKKVSGIGAKT	IE	207		
NTDB id 493	SM12261	RS04300	WP 000387351.1	SQQAGPGTA.....SSTS	KEKKVNLNKASLEELKQ.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	LKKVSGIGAKT	IE	207		
NTDB id 263	KZH43	RS04195	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEELKQ	.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	LKKVSGIGGKT	IE	207		
NTDB id 222	SPD	RS04535	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEELKQ	.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	LKKVSGIGGKT	IE	207		
NTDB id 188	SPR	RS04295	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEELKQ	.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	LKKVSGIGGKT	IE	207		
NTDB id 153	SP	RS04730	WP 000387344.1	SQQTGSGTA.....SSTS	KEKKVNLNKASLEELKQ.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	LKKVSGIGGKT	IE	207		
NTDB id 1069	ABD1	RS03060	WP 043960841.1	.NISKSSHSNSSKISQTKNFNDSTGQIHLNQAN	VNEFQQ.LKGIGEKKAAQAI	IVEYRQKNGS	FKNIDEI	KNVKGIGPA	IFE	128		
NTDB id 1041	HON27	RS14740	WP 005124713.1	.NITKSSHSNGSKISQTKNFNDSTGQIHLNQAN	VNEFQQ.LKGVGEKKAAQAI	IVEYRQKNGS	FKNIDEI	KNVKGIGPA	IFE	128		
NTDB id 36	MW	RS08230	WP 001793467.1	EP....QIGVNS..VHVKNGNTNNTKVN	LNTASVSELMS.VPGVGQAKANA	IVEYRNQ	QGAFQE	IDDLK	KKVKGFGSK	TFD	220	
NTDB id 20	SA	RS08005	WP 001802022.1	EP....QIEVNS..VHVKNGNTNNTKVN	LNTASVSELMS.VPGVGQAKANA	IVEYRNQ	QGAFQE	IDDLK	KKVKGFGSK	TFD	220	
NTDB id 105	BSU 25590	NP 390437.1		V....QQGGGGS..V..QSDGGKGALVN	INTATLEELQG.ISGVGPSKAEAI	IAYREENG	R	FQTI	IEDIT	TKVSGIGEK	SFE	196
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	LNSSASHHSLSK..P..TQQSGTG	VKNINSATAKELQQ.LHGVGEKKALA	IVEYRQY	GKFASV	DDLQ	KKVKGIG	PKFIE	120	
NTDB id 1127	NGFG	RS10560	WP 003703428.1	FSCAFSLAAVNINAASQQELEA	.LPGIGPAKAKAIAEYRAQNGAFKSV	VDDL	IKVKGIGPA	VL	LA	105		
NTDB id 1126	NGFG	RS09375	WP 003703428.1	FSCAFSLAAVNINAASQQELEA	.LPGIGPAKAKAIAEYRAQNGAFKSV	VDDL	IKVKGIGPA	VL	LA	105		
NTDB id 1125	NGFG	RS07215	WP 003703428.1	FSCAFSLAAVNINAASQQELEA	.LPGIGPAKAKAIAEYRAQNGAFKSV	VDDL	IKVKGIGPA	VL	LA	105		
NTDB id 1108	NGFG	RS06525	WP 003703428.1	FSCAFSLAAVNINAASQQELEA	.LPGIGPAKAKAIAEYRAQNGAFKSV	VDDL	IKVKGIGPA	VL	LA	105		
NTDB id 302072	DS746	RS00055	WP 002922274.1	TLTAFLFGA	VNINTATLKLKLS.LNGIGEAKAKAILEYRKE	.ANFTS	IDDLK	KKVKGIGD	KLFE	70		
NTDB id 1242	Cj0011c	YP 002343483.1		ALTAFLFGA	VNINTATLKLKLS.LNGIGEAKAKAILEYRKE	.ANFTS	IDDLK	KKVKGIGD	KLFE	70		
consensus				***! !** !* * !*! ***!***!***! ** !***** *!***! ****								

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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	KNKSRLAL	136		
NTDB id 1041	HON27	RS14740	WP 005124713.1	KNKSRLAL	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 302072	DS746	RS00055	WP 002922274.1	KIKNDITVE	79		
NTDB id 1242	Cj0011c	YP 002343483.1		KIKNDITIE	79		
consensus				*****	****		

 non conserved
 similar
 $\geq 50\%$ conserved