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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	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.LLVVCALIAGGIFYIFTNSPKPAETLSVEN....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...VVAISKDSVSEKEVNKKEEKEEPL	69
NTDB id 263	KZH43	RS04195	WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKKEEKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKKEEKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKKEEKEEPL	69
NTDB id 153	SP	RS04730	WP 000387344.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDSSTEKEVNKKEEKEEPL	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 104932	R8620	RS00055	WP 002855574.1		0
NTDB id 1242	Cj0011c	YP 002343483.1			0
consensus					0

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	EQDLITVDYKGAVKSPGYYLITYSKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYVPTKGEAAV	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.FTSVVLGALVSSSFAEEKATXQTAQSVV.....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.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		SNETIVIDIKGAVQHPGVYEM.RTGDRVS.....QAI...EKAGGTSEQADEAQVNLAELQDGTVVYIPKKGEETA	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 104932	R8620	RS00055	WP 002855574.1	MKKLLFLF..FA.....	10
NTDB id 1242	Cj0011c	YP 002343483.1		MKKLLFLF..FA.....	10
consensus					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	EAQVAPAVVSDKLNINTATASEIQKSL	TGIGAKKA	EAI	VQYREKHG	NFXNAE	QQLLEVQ	GIGKATLE	104				
NTDB id 1382	A4U84	RS07375	WP 062924234.1	VAATQKVNAVNVNINTATASEIQDKL	VGIGAKKA	QAI	IVEYREKNG	KFLNVEQ	LTEVSGIGKATLE	104				
NTDB id 595	KW2	RS08725	WP 021037687.1	SESTDSPTG...SSVSNQISTTSGPKVNINKA	DLTELQK	.LTGIGQKKAQ	DI	DFRMKNGD	FKSIEDL	GLKVS	GFGDKTLE	209		
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SQHTGSGAP.....SSTS	SKDKK	INLNKAS	LEELKQ	.VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGAKTIE	207	
NTDB id 493	SM12261	RS04300	WP 000387351.1	SQQAGPGTA.....SSTS	KEKK	VNLNKAS	LEELKQ	.VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGAKTIE	207	
NTDB id 263	KZH43	RS04195	WP 000387330.1	SQQTGLGTA.....SSIS	KEKK	VNLNKAS	LEELKQ	.VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGGKTIE	207	
NTDB id 222	SPD	RS04535	WP 000387330.1	SQQTGLGTA.....SSIS	KEKK	VNLNKAS	LEELKQ	.VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGGKTIE	207	
NTDB id 188	SPR	RS04295	WP 000387330.1	SQQTGLGTA.....SSIS	KEKK	VNLNKAS	LEELKQ	.VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGGKTIE	207	
NTDB id 153	SP	RS04730	WP 000387344.1	SQQTGSGTA.....SSTS	KEKK	VNLNKAS	LEELKQ	.VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGGKTIE	207	
NTDB id 1069	ABD1	RS03060	WP 043960841.1	LNISKSSHSNSSKISQTKNFNDSTGQ	IHLNQANVNE	FQQ	.LKGIGEKKAQ	AIVEYRQKNGS	FKNIDEI	KNVKGIG	PAIFE	128		
NTDB id 1041	HON27	RS14740	WP 005124713.1	LNITKSSHSNGSKISQTKNFNDSTGQ	IHLNQANVNE	FQQ	.LKGIGEKKAQ	AIVEYRQKNGS	FKNIDEI	KNVKGIG	PAIFE	128		
NTDB id 36	MW	RS08230	WP 001793467.1	EP....QIGVNS..VHVKNGNTNNTK	VNLNTASV	SELMS	.VPGVGQAKA	NAIVEYRNQ	QGAFQE	IDDLK	KKVKGFGSKTFD	220		
NTDB id 20	SA	RS08005	WP 001802022.1	EP....QIEVNS..VHVKNGNTNNTK	VNLNTASV	SELMS	.VPGVGQAKA	NAIVEYRNQ	QGAFQE	IDDLK	KKVKGFGSKTFD	220		
NTDB id 105	BSU 25590	NP 390437.1		V....QQGGGGS..V..QSDGGKGALVNINT	ATLEELQ	G	.ISGVGPSKA	EAI	IAYREENG	RFTIED	ITKVS	GIGEK	SFE	196
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	LNSSASHHSLSK..P..TQQSGTG	VKNINSAT	AKELQQ	.LHGVGEKK	KALAI	AVEYRQY	GKFASV	DDLQ	KKVKGIG	PKFIE	120
NTDB id 1127	NGFG	RS10560	WP 003703428.1	SCAFSLAAVNINAASQ	QLEA	.LPGIGPAK	AKAIAEYRA	QNGAFKSV	DDL	IKVKGIG	PAVLA	105		
NTDB id 1126	NGFG	RS09375	WP 003703428.1	SCAFSLAAVNINAASQ	QLEA	.LPGIGPAK	AKAIAEYRA	QNGAFKSV	DDL	IKVKGIG	PAVLA	105		
NTDB id 1125	NGFG	RS07215	WP 003703428.1	SCAFSLAAVNINAASQ	QLEA	.LPGIGPAK	AKAIAEYRA	QNGAFKSV	DDL	IKVKGIG	PAVLA	105		
NTDB id 1108	NGFG	RS06525	WP 003703428.1	SCAFSLAAVNINAASQ	QLEA	.LPGIGPAK	AKAIAEYRA	QNGAFKSV	DDL	IKVKGIG	PAVLA	105		
NTDB id 104932	R8620	RS00055	WP 002855574.1	LTAFLFGA	VNINTATL	KELKS	.LNGIGEAK	AKAIALEYRKE	.ANFTS	IDDLK	KKVKGIG	DKLFE	70	
NTDB id 1242	Cj0011c	YP 002343483.1		LTAFLFGA	VNINTATL	KELKS	.LNGIGEAK	AKAIALEYRKE	.ANFTS	IDDLK	KKVKGIG	DKLFE	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 104932	R8620	RS00055	WP 002855574.1	KIKNDITVE	79		
NTDB id 1242	Cj0011c	YP 002343483.1		KIKNDITIE	79		
consensus				*****			

 non conserved
 similar
 $\geq 50\%$ conserved