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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...VVAISKDSVSEKEVKKEEKEEPL	69
NTDB id 263	KZH43	RS04195	WP 000387330.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 153	SP	RS04730	WP 000387344.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	69
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 1041	HON27	RS14740	WP 005124713.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	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	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVVKQEANNDE	0
NTDB id 1127	NGFG	RS10560	WP 003703428.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVVKQEANNDE	5
NTDB id 1126	NGFG	RS09375	WP 003703428.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVVKQEANNDE	5
NTDB id 1125	NGFG	RS07215	WP 003703428.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVVKQEANNDE	5
NTDB id 1108	NGFG	RS06525	WP 003703428.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVVKQEANNDE	5
NTDB id 137452	RC45	RS08555	WP 002855574.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVVKQEANNDE	0
NTDB id 1242	Cj0011c	YP 002343483.1		MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVVKQEANNDE	0
consensus				MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVVKQEANNDE	

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	EQDLITVDYKGAVKSPGYYLDTYKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYVPTKGEAAV	33
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	EQDLITVDYKGAVKSPGYYLDTYKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYVPTKGEAAV	33
NTDB id 1395	DSB67	RS04445	WP 010649155.1	EQDLITVDYKGAVKSPGYYLDTYKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYVPTKGEAAV	25
NTDB id 1362	HI 1008	AAC22669.1		EQDLITVDYKGAVKSPGYYLDTYKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYVPTKGEAAV	38
NTDB id 1382	A4U84	RS07375	WP 062924234.1	EQDLITVDYKGAVKSPGYYLDTYKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYVPTKGEAAV	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.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEAAV	137
NTDB id 222	SPD	RS04535	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEAAV	137
NTDB id 188	SPR	RS04295	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEAAV	137
NTDB id 153	SP	RS04730	WP 000387344.1	EQDLITVDVKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEAAV	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...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 137452	RC45	RS08555	WP 002855574.1	MKKLLFLF..FA.....	10
NTDB id 1242	Cj0011c	YP 002343483.1		MKKLLFLF..FA.....	10
consensus				MKKLLFLF..FA.....	

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	VEEGIVITVNINTASAEELATLLKGI	GLKKAQAI	VDYREANGP	FTH	IDDLT	NVKGIGEAT	VR	95
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	VEEGIVITVNINTASAEELATLLKGI	GLKKAQAI	VDYREANGP	FTH	IDDLT	NVKGIGEAT	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	E	AI	VQYREKHG	NFXNAEQ	LLEVGIGKAT	LE	104
NTDB id 1382	A4U84	RS07375	WP 062924234.1	VAATQKVNANVVNINTATASEIQDKLV	GIGAKKAQAI	IVEYREKNGK	FLNVEQ	LTEVSGIGKAT	LE	104	
NTDB id 595	KW2	RS08725	WP 021037687.1	SESTDSPTG...SSVSNQISTTSGPKVNINKAD	LTELQK.LTGIGQKKAQD	I	DFRMKNGD	FKSIEDL	GKVS	SGFGDKTLE	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	LNISKSSHSNSSKISQTKNFNDSTGQIHLNQAN	VNEFQQ.LKGIGEKKAAQAI	IVEYRQKNGS	FKNIDEI	KNVKGIGPAIFE		128	
NTDB id 1041	HON27	RS14740	WP 005124713.1	LNITKSSHSNGSKISQTKNFNDSTGQIHLNQAN	VNEFQQ.LKGVGEKKAAQAI	IVEYRQKNGS	FKNIDEI	KNVKGIGPAIFE		128	
NTDB id 36	MW	RS08230	WP 001793467.1	EP....QIGVNS..VHVKNGNTNNTKVN	LNTASVSELMS.VPGVGQAKANA	IVEYRNQQGAFQE	IDDLLK	KKVKGFGSKTFD		220	
NTDB id 20	SA	RS08005	WP 001802022.1	EP....QIEVNS..VHVKNGNTNNTKVN	LNTASVSELMS.VPGVGQAKANA	IVEYRNQQGAFQE	IDDLLK	KKVKGFGSKTFD		220	
NTDB id 105	BSU 25590	NP 390437.1		V....QQGGGGS..V..QSDGGKGALVNINTAT	LEELQG.ISGVGPSKAEAI	IAYREENGR	FQTIEDIT	TKVSGIGEK	SFE	196	
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	LNSSASHHSLSK..P..TQQSGTG	VKNINSATAKELQQ.LHGVGEKKALAI	IVEYRQYQK	FASVDDL	QKVKGIGPKFIE		120	
NTDB id 1127	NGFG	RS10560	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIG	PAKAKAIAEYRAQNGAFKSVDDL	IKVKGIGPAVLA				105	
NTDB id 1126	NGFG	RS09375	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIG	PAKAKAIAEYRAQNGAFKSVDDL	IKVKGIGPAVLA				105	
NTDB id 1125	NGFG	RS07215	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIG	PAKAKAIAEYRAQNGAFKSVDDL	IKVKGIGPAVLA				105	
NTDB id 1108	NGFG	RS06525	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIG	PAKAKAIAEYRAQNGAFKSVDDL	IKVKGIGPAVLA				105	
NTDB id 137452	RC45	RS08555	WP 002855574.1	LTAFLFGAVNINTATLKLKLS.LNGI	EAKAKAILEYRKE.ANFTS	IDDLLK	KKVKGIGDKLFE			70	
NTDB id 1242	Cj0011c	YP 002343483.1		LTAFLFGAVNINTATLKLKLS.LNGI	EAKAKAILEYRKE.ANFTS	IDDLLK	KKVKGIGDKLFE			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	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	KLKDAQSVGAPAPKGP	PAKPVLPVAVKK	131
NTDB id 1126	NGFG	RS09375	WP 003703428.1	KLKDAQSVGAPAPKGP	PAKPVLPVAVKK	131
NTDB id 1125	NGFG	RS07215	WP 003703428.1	KLKDAQSVGAPAPKGP	PAKPVLPVAVKK	131
NTDB id 1108	NGFG	RS06525	WP 003703428.1	KLKDAQSVGAPAPKGP	PAKPVLPVAVKK	131
NTDB id 137452	RC45	RS08555	WP 002855574.1	KIKNDITVE.....	79	
NTDB id 1242	Cj0011c	YP 002343483.1		KIKNDITIE.....	79	
consensus				*****		

 non conserved
 similar
 $\geq 50\%$ conserved