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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...VVAISKDSVSEKEVNKKEEKEEPL	69
NTDB id 263	KZH43	RS04195	WP 000387330.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKKEEKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKKEEKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKKEEKEEPL	69
NTDB id 153	SP	RS04730	WP 000387344.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVNKKEEKEEPL	69
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVNKKEEKEEPL	0
NTDB id 1041	HON27	RS14740	WP 005124713.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVNKKEEKEEPL	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 137714	RC01	RS08660	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...QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	33
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	EQDLITVDYKGAVKSPGYYLDTYKRYNDKLYLFCMLF...QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	33
NTDB id 1395	DSB67	RS04445	WP 010649155.1	EQDLITVDYKGAVKSPGYYLDTYKRYNDKLYLFCMLF...QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	25
NTDB id 1362	HI 1008	AAC22669.1		EQDLITVDYKGAVKSPGYYLDTYKRYNDKLYLFCMLF...QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	38
NTDB id 1382	A4U84	RS07375	WP 062924234.1	EQDLITVDYKGAVKSPGYYLDTYKRYNDKLYLFCMLF...QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	39
NTDB id 595	KW2	RS08725	WP 021037687.1	NKNEIMVDLKGAVAKPNVYQISSDERLVDLI.....RQAGGFTDQADQKSINLSAKLKDEEVIYVPKVGESSS	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...EKAGGTSEQADEAQVNLAELIQDGTVVYIPKKGEETA	125
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	MSIRHFFT...FFWAT.....LLTLFSMQI...VFAQGGFDQYDQAW.....KTQQAHDTR	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 137714	RC01	RS08660	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	PFKTAADL	TKVKGIGEAT	VR	87		
NTDB id 1362	HI 1008	AAC22669.1	EAQVAPAVVSDKLNINTATASEIQKSL	TGIGAKKA	E	IVQYREKHG	NFXNAE	Q	LLEVQGIGKAT	LE	104	
NTDB id 1382	A4U84	RS07375	WP 062924234.1	VAATQKVNAVNVNINTATASEIQDKL	VGIGAKKAQAI	IVEYREKNG	KFLN	VEQLTEV	SGIGKAT	LE	104	
NTDB id 595	KW2	RS08725	WP 021037687.1	SESTDSPTG...SSVSNQISTTSGPKVNINKA	D	LT	ELQK	LTGIGQKKAQD	I	DFRMKNGDFKSI	EDL	209
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SQHTGSGAP.....SSTS	SKDKK	INLN	KASLEELKQ	VKGLGGKRAQD	I	IDHREANGKF	KSVD	207
NTDB id 493	SM12261	RS04300	WP 000387351.1	SQQAGPGTA.....SSTS	KEKK	VNLN	KASLEELKQ	VKGLGGKRAQD	I	IDHREANGKF	KSVD	207
NTDB id 263	KZH43	RS04195	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLN	KASLEELKQ	VKGLGGKRAQD	I	IDHREANGKF	KSVD	ELKKVSGIGGKT	IE	207
NTDB id 222	SPD	RS04535	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLN	KASLEELKQ	VKGLGGKRAQD	I	IDHREANGKF	KSVD	ELKKVSGIGGKT	IE	207
NTDB id 188	SPR	RS04295	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLN	KASLEELKQ	VKGLGGKRAQD	I	IDHREANGKF	KSVD	ELKKVSGIGGKT	IE	207
NTDB id 153	SP	RS04730	WP 000387344.1	SQQTGSGTA.....SSTS	KEKK	VNLN	KASLEELKQ	VKGLGGKRAQD	I	IDHREANGKF	KSVD	207
NTDB id 1069	ABD1	RS03060	WP 043960841.1	LNISKSSHSNSSKISQTKNFNDSTGQ	IHLN	QANVNE	FQQ	LKGIGEKKAAQAI	IVEYRQKNGS	FKN	IDEI	128
NTDB id 1041	HON27	RS14740	WP 005124713.1	LNITKSSHSNGSKISQTKNFNDSTGQ	IHLN	QANVNE	FQQ	LKGIGEKKAAQAI	IVEYRQKNGS	FKN	IDEI	128
NTDB id 36	MW	RS08230	WP 001793467.1	EP....QIGVNS..VHVKNGNTNNTK	VNLN	TASV	SELMS	VPGVGQAKANA	IVEYRNQ	QGAFQE	IDD	220
NTDB id 20	SA	RS08005	WP 001802022.1	EP....QIEVNS..VHVKNGNTNNTK	VNLN	TASV	SELMS	VPGVGQAKANA	IVEYRNQ	QGAFQE	IDD	220
NTDB id 105	BSU	25590	NP 390437.1	V....QQGGGGS..V..QSDGGKGALVN	INTAT	LEEL	QG	ISGVGPSKAE	AI	IAYREENG	RFT	196
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	LNSSASHHSLSK..P..TQQSGTG	VKN	INSAT	AKELQQ	LHG	VGEKKALAI	IVEYRQY	GKFASV	120
NTDB id 1127	NGFG	RS10560	WP 003703428.1	SCAFSLAAVNINAASQ	Q	LEA	LP	GIGPAKAKAIAEYRAQNGAFKSV	V	DDLIKVKGIGPAV	LA	105
NTDB id 1126	NGFG	RS09375	WP 003703428.1	SCAFSLAAVNINAASQ	Q	LEA	LP	GIGPAKAKAIAEYRAQNGAFKSV	V	DDLIKVKGIGPAV	LA	105
NTDB id 1125	NGFG	RS07215	WP 003703428.1	SCAFSLAAVNINAASQ	Q	LEA	LP	GIGPAKAKAIAEYRAQNGAFKSV	V	DDLIKVKGIGPAV	LA	105
NTDB id 1108	NGFG	RS06525	WP 003703428.1	SCAFSLAAVNINAASQ	Q	LEA	LP	GIGPAKAKAIAEYRAQNGAFKSV	V	DDLIKVKGIGPAV	LA	105
NTDB id 137714	RC01	RS08660	WP 002855574.1	LTAFLFGA	VN	INTAT	LKELKS	LNGIGEAKAKAIAEYRKE	ANFTS	IDD	LKKVKGIGD	70
NTDB id 1242	Cj0011c	YP 002343483.1	LTAFLFGA	VN	INTAT	LKELKS	LNGIGEAKAKAIAEYRKE	ANFTS	IDD	LKKVKGIGD	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		KNRDRIF	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	KIKSSITVK	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 137714	RC01	RS08660	WP 002855574.1	KIKNDITVE	79
NTDB id 1242	Cj0011c	YP 002343483.1		KIKNDITIE	79
consensus				*****	

 non conserved
 similar
 $\geq 50\%$ conserved