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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSSEKESKEVSKKEEKSEEP	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	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLI GFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK	80
NTDB id 20	SA	RS08005	WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLI GFIFWRQDDYTSRNFENKDTALKQSTSENSSLSKLEDVQVKDGDNSK	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	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 236425	A6J90	RS01050	WP 002855574.1		0
NTDB id 1242	Cj0011c	YP 002343483.1			0
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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	EQDLITVDYKGA VKSPG Y L L T Y S R N P K V L F C M L EAAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEAA	33
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	MQIKT.KIVTFLFLSLCLPTLPLLANAEETAPAAQ.....	33
NTDB id 1395	DSB67	RS04445	WP 010649155.1	MKWMLTLCLLILAPMSWAE.TKTKAD.....	25
NTDB id 1362	HI 1008	AAC22669.1		MKT.L.FTSVVLGALVSSSF AEEKATXQTAQSVV.....TTQA.....	38
NTDB id 1382	A4U84	RS07375	WP 062924234.1	MKK.LSRYTFSLLFG.LFSATTFAEEKVTTSTEHTPV.....VMQQ.....	39
NTDB id 595	KW2	RS08725	WP 021037687.1	NKNEIMVDLKGAVAKPNVYQISSDERLVDL.....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.YFVLIMLCLGVISPSVCAQSFQDNFQEWKVKQQM..YDQK.....	49
NTDB id 1041	HON27	RS14740	WP 005124713.1	MQYSMRFWKN...K.YFVLIMLCLGVISPSVCAQSFQDNFQEWKVKQQM..YDQK.....	49
NTDB id 36	MW	RS08230	WP 001793467.1	NKGPVYVDVKGAVKHPNVYKMTSKDRVVD.LL.....DKAQLLEDADVSRINLSEKLTQDKMIFIPHKGQKNV	147
NTDB id 20	SA	RS08005	WP 001802022.1	NKGPVYVDVKGAVKHPNVYKMTSKDRVVD.LL.....DKAQLLEDADVSRINLSEKLTQDKMIFIPHKGQKNV	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...VFAQQGFDQYDQAW.....KTQQKAHDTR	45
NTDB id 1127	NGFG	RS10560	WP 003703428.1	ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLF CMLF.....	44
NTDB id 1126	NGFG	RS09375	WP 003703428.1	ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLF CMLF.....	44
NTDB id 1125	NGFG	RS07215	WP 003703428.1	ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLF CMLF.....	44
NTDB id 1108	NGFG	RS06525	WP 003703428.1	ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLF CMLF.....	44
NTDB id 236425	A6J90	RS01050	WP 002855574.1	MKKLLFLF..FA.....	10
NTDB id 1242	Cj0011c	YP 002343483.1		MKKLLFLF..FA.....	10
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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	IVEYRNEHGPF	KT	ADLT	TKVKGIGEAT	VR	87
NTDB id 1362 HI 1008 AAC22669.1	EAQVAPAVVSDKLNINTATASEIQKS	LTGIGAKKA	E	AI	VQYREKHGN	FXNAE	Q	104
NTDB id 1382 A4U84 RS07375 WP 062924234.1	VAATQKVNAVNVNINTATASEIQDK	LVGIGAKKAQAI	IVEYREKNGK	FLN	VE	Q	LT	104
NTDB id 595 KW2 RS08725 WP 021037687.1	SESTDSPTG...SSVSNQISTTSGPKVNINK	ADLT	ELQK	LTGIGQKKAQD	I	DF	RM	209
NTDB id 521 SMSK321 RS04960 WP 000443804.1	SQHTGSGAP.....SSTS	KDKK	IN	LN	KAS	LEEL	KQ	207
NTDB id 493 SM12261 RS04300 WP 000387351.1	SQQAGPGTA.....SSTSKEKKVNLN	KASLEELKQ	VKGLGGKRAQD	I	IDHREANGK	FKS	V	207
NTDB id 263 KZH43 RS04195 WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLN	KASLEELKQ	VKGLGGKRAQD	I	IDHREANGK	FKS	V	207
NTDB id 222 SPD RS04535 WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLN	KASLEELKQ	VKGLGGKRAQD	I	IDHREANGK	FKS	V	207
NTDB id 188 SPR RS04295 WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLN	KASLEELKQ	VKGLGGKRAQD	I	IDHREANGK	FKS	V	207
NTDB id 153 SP RS04730 WP 000387344.1	SQQTGSGTA.....SSTSKEKKVNLN	KASLEELKQ	VKGLGGKRAQD	I	IDHREANGK	FKS	V	207
NTDB id 1069 ABD1 RS03060 WP 043960841.1	LNISKSSHSNSSKISQTKNFNDSTGQ	IHLNQANVNE	FQQ	LKGIGEKKAAQAI	IVEYRQKNGS	FKN	I	128
NTDB id 1041 HON27 RS14740 WP 005124713.1	LNITKSSHSNGSKISQTKNFNDSTGQ	IHLNQANVNE	FQQ	LKGIGEKKAAQAI	IVEYRQKNGS	FKN	I	128
NTDB id 36 MW RS08230 WP 001793467.1	EP....QIGVNS..VHVKNGNTNNTK	VNLNTASV	SELMS	VPGVGQAKANA	IVEYRNQ	Q	G	220
NTDB id 20 SA RS08005 WP 001802022.1	EP....QIEVNS..VHVKNGNTNNTK	VNLNTASV	SELMS	VPGVGQAKANA	IVEYRNQ	Q	G	220
NTDB id 105 BSU 25590 NP 390437.1	V....QGGGGGS..V..QSDGGKGALVN	INTATLEEL	Q	ISGVGPSKAE	AI	I	A	196
NTDB id 1014 ACIAD RS13855 WP 004924483.1	LNSSASHHSLSK..P..TQQSGTG	VKNINSAT	AKELQ	LHG	VGEKKALAI	IVEYRQY	G	120
NTDB id 1127 NGFG RS10560 WP 003703428.1	SCAFSLAAVNINAASQ	QLEA	LPGIGPAKAKAIAEYRAQNGAFKSVDDLI	KVKGIGPAVLA				105
NTDB id 1126 NGFG RS09375 WP 003703428.1	SCAFSLAAVNINAASQ	QLEA	LPGIGPAKAKAIAEYRAQNGAFKSVDDLI	KVKGIGPAVLA				105
NTDB id 1125 NGFG RS07215 WP 003703428.1	SCAFSLAAVNINAASQ	QLEA	LPGIGPAKAKAIAEYRAQNGAFKSVDDLI	KVKGIGPAVLA				105
NTDB id 1108 NGFG RS06525 WP 003703428.1	SCAFSLAAVNINAASQ	QLEA	LPGIGPAKAKAIAEYRAQNGAFKSVDDLI	KVKGIGPAVLA				105
NTDB id 236425 A6J90 RS01050 WP 002855574.1	LTAFLFGA	VNINTATL	KELKS	LNGIGEAKAKAIALEYRKE	ANFTS	I	DD	70
NTDB id 1242 Cj0011c YP 002343483.1	LTAFLFGA	VNINTATL	KELKS	LNGIGEAKAKAIALEYRKE	ANFTS	I	DD	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	KNKSRILAL	136
NTDB id 1041 HON27 RS14740 WP 005124713.1	KNKSRILAL	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	KNRDRILAI	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 236425 A6J90 RS01050 WP 002855574.1	KIKNDITVE	79
NTDB id 1242 Cj0011c YP 002343483.1	KIKNDITIE	79
consensus	*****	

 non conserved
 similar
 $\geq 50\%$ conserved