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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1395	DSB67	RS04445	WP 010649155.1	MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1362	HI 1008	AAC22669.1		MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1382	A4U84	RS07375	WP 062924234.1	MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 595	KW2	RS08725	WP 021037687.1	MEKILDKLKEYWKIM.LLVVICALIAGGIFYIFTNSPKPAETLSVEN....LSSS...STKSSVSKFNSSSSEK	65
NTDB id 521	SMSK321	RS04960	WP 000443804.1	MESIIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV	69
NTDB id 493	SM12261	RS04300	WP 000387351.1	MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSVSEKEVKKEEKEEPL	69
NTDB id 263	KZH43	RS04195	WP 000387330.1	MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 153	SP	RS04730	WP 000387344.1	MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	69
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 1041	HON27	RS14740	WP 005124713.1	MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...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...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 104268	R8565	RS00060	WP 002855574.1	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	EQDLITVDYKGAVKSPGYYLDTYSKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	33
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	EQDLITVDYKGAVKSPGYYLDTYSKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	33
NTDB id 1395	DSB67	RS04445	WP 010649155.1	EQDLITVDYKGAVKSPGYYLDTYSKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	25
NTDB id 1362	HI 1008	AAC22669.1		EQDLITVDYKGAVKSPGYYLDTYSKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	38
NTDB id 1382	A4U84	RS07375	WP 062924234.1	EQDLITVDYKGAVKSPGYYLDTYSKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	39
NTDB id 595	KW2	RS08725	WP 021037687.1	NKNEIMVDLKGAVAKPNVYQISSDERLVDLI.....RQAGGFTDQADQKSINLSAKLKDEEVIYVPKVGESS	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..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.....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...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 104268	R8565	RS00060	WP 002855574.1	MCKLLFLF..FA.....	10
NTDB id 1242	Cj0011c	YP 002343483.1		MCKLLFLF..FA.....	10
consensus				MCKLLFLF..FA.....	

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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	PFKTAADLT	TKVKGIG	EATVR	87														
NTDB id 1362	HI 1008	AAC22669.1	EAQVAPAVVSDKLNINTATASEIQKS	LTGIGAKKA	EAI	VQYREKHG	NFXNAE	QQLLEVQ	GIGKATLE	104														
NTDB id 1382	A4U84	RS07375	WP 062924234.1	VAATQKVNANV	VNINTATASEIQDK	LVGIGAKKAQAI	IVEYREKNGK	FLNVEQLTEV	SGIGKATLE	104														
NTDB id 595	KW2	RS08725	WP 021037687.1	SESTDSPTG...SSVSNQISTTSGPKVNINK	ADLT	ELQK	LTGIGQKKAQDI	IDFRMKN	GDFKSI	EDL	GKVS	SGF	GDK	TL	LE	209								
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SQHTGSGAP.....SSTS	SKDKK	INLN	KNAS	LEELKQ	VKGLGGKRAQDI	IDHREANG	KFKSV	DEL	LKKV	SGIG	AKTIE	207								
NTDB id 493	SM12261	RS04300	WP 000387351.1	SQQAGPGTA.....SSTS	KEKK	VNL	NKAS	LEELKQ	VKGLGGKRAQDI	IDHREANG	KFKSV	DEL	LKKV	SGIG	AKTIE	207								
NTDB id 263	KZH43	RS04195	WP 000387330.1	SQQTGLGTA.....SSIS	KEKK	VNL	NKAS	LEELKQ	VKGLGGKRAQDI	IDHREANG	KFKSV	DEL	LKKV	SGIG	GKTIE	207								
NTDB id 222	SPD	RS04535	WP 000387330.1	SQQTGLGTA.....SSIS	KEKK	VNL	NKAS	LEELKQ	VKGLGGKRAQDI	IDHREANG	KFKSV	DEL	LKKV	SGIG	GKTIE	207								
NTDB id 188	SPR	RS04295	WP 000387330.1	SQQTGLGTA.....SSIS	KEKK	VNL	NKAS	LEELKQ	VKGLGGKRAQDI	IDHREANG	KFKSV	DEL	LKKV	SGIG	GKTIE	207								
NTDB id 153	SP	RS04730	WP 000387344.1	SQQTGSGTA.....SSTS	KEKK	VNL	NKAS	LEELKQ	VKGLGGKRAQDI	IDHREANG	KFKSV	DEL	LKKV	SGIG	GKTIE	207								
NTDB id 1069	ABD1	RS03060	WP 043960841.1	LNISKSSHSNSSKISQTKNFNDSTGQ	IHLN	QANV	NEFQQ	LKGIG	EKKAAQAI	IVEYRQ	KNGS	FKN	IDEI	KNV	KGIG	PAIFE	128							
NTDB id 1041	HON27	RS14740	WP 005124713.1	LNITKSSHSNGSKISQTKNFNDSTGQ	IHLN	QANV	NEFQQ	LKG	VGEKKAQAI	IVEYRQ	KNGS	FKN	IDEI	KNV	KGIG	PAIFE	128							
NTDB id 36	MW	RS08230	WP 001793467.1	EP....QIGVNS..VHVKNGNTNNTK	VNL	N	TAS	VSELMS	VPGVGQAKANA	IVEYRN	QQGAF	QE	IDDL	LKKV	KGFG	SKTFD	220							
NTDB id 20	SA	RS08005	WP 001802022.1	EP....QIEVNS..VHVKNGNTNNTK	VNL	N	TAS	VSELMS	VPGVGQAKANA	IVEYRN	QQGAF	QE	IDDL	LKKV	KGFG	SKTFD	220							
NTDB id 105	BSU 25590	NP 390437.1	V....QQGGGGS..V..QSDGGKGALVNINTAT	LEELQ	ISGV	GPSKAE	AI	IAYREENG	R	FQ	T	IED	I	TKV	S	GIG	EKS	SFE	196					
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	LNSSASHHSLSK..P..TQQSGTG	VKN	INS	AT	AKELQ	LHG	VGEKKALAI	IVEYRQ	QY	GK	FAS	VDDL	LKKV	KGIG	PKFIE	120					
NTDB id 1127	NGFG	RS10560	WP 003703428.1	SCAFSLAAVNINAASQQ	ELEA	LP	GIGPAKAKAIAEYRAQ	NGAFKSVDDL	L	IKVKGIG	PAVLA	105												
NTDB id 1126	NGFG	RS09375	WP 003703428.1	SCAFSLAAVNINAASQQ	ELEA	LP	GIGPAKAKAIAEYRAQ	NGAFKSVDDL	L	IKVKGIG	PAVLA	105												
NTDB id 1125	NGFG	RS07215	WP 003703428.1	SCAFSLAAVNINAASQQ	ELEA	LP	GIGPAKAKAIAEYRAQ	NGAFKSVDDL	L	IKVKGIG	PAVLA	105												
NTDB id 1108	NGFG	RS06525	WP 003703428.1	SCAFSLAAVNINAASQQ	ELEA	LP	GIGPAKAKAIAEYRAQ	NGAFKSVDDL	L	IKVKGIG	PAVLA	105												
NTDB id 104268	R8565	RS00060	WP 002855574.1	LTAFLFGA	VNINTATL	KLK	LS	LNGIGE	AKAKAILEYRKE	ANFTS	IDDL	LKKV	KGIG	D	KLFE	70								
NTDB id 1242	Cj0011c	YP 002343483.1	LTAFLFGA	VNINTATL	KLK	LS	LNGIGE	AKAKAILEYRKE	ANFTS	IDDL	LKKV	KGIG	D	KLFE	70									
consensus				***! !** !*											** !*****				*!*!!			****		

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	NNAAR	ILL		103
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	NNAAR	ILL		103
NTDB id 1395	DSB67	RS04445	WP 010649155.1	KNEDR	ILL	.....	95
NTDB id 1362	HI 1008	AAC22669.1		KNRDRI	IF	.....	112
NTDB id 1382	A4U84	RS07375	WP 062924234.1	KNRDC	IVIE	.....	113
NTDB id 595	KW2	RS08725	WP 021037687.1	KLKDE	ISID	.....	218
NTDB id 521	SMSK321	RS04960	WP 000443804.1	KLKDY	VTVD	.....	216
NTDB id 493	SM12261	RS04300	WP 000387351.1	KLKDY	VTVD	.....	216
NTDB id 263	KZH43	RS04195	WP 000387330.1	KLKDY	VTVD	.....	216
NTDB id 222	SPD	RS04535	WP 000387330.1	KLKDY	VTVD	.....	216
NTDB id 188	SPR	RS04295	WP 000387330.1	KLKDY	VTVD	.....	216
NTDB id 153	SP	RS04730	WP 000387344.1	KLKDY	VTVD	.....	216
NTDB id 1069	ABD1	RS03060	WP 043960841.1	KNKSRL	LAL	.....	136
NTDB id 1041	HON27	RS14740	WP 005124713.1	KNKSRL	LAL	.....	136
NTDB id 36	MW	RS08230	WP 001793467.1	KLKSYFT	TI	.....	228
NTDB id 20	SA	RS08005	WP 001802022.1	KLKSYFT	TI	.....	228
NTDB id 105	BSU 25590	NP 390437.1		KIKSSI	ITVK	.....	205
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	KNRDRL	AI	.....	128
NTDB id 1127	NGFG	RS10560	WP 003703428.1	KLKDQAS	VGAPAPKGP	PAKPVLP	PAVKK
NTDB id 1126	NGFG	RS09375	WP 003703428.1	KLKDQAS	VGAPAPKGP	PAKPVLP	PAVKK
NTDB id 1125	NGFG	RS07215	WP 003703428.1	KLKDQAS	VGAPAPKGP	PAKPVLP	PAVKK
NTDB id 1108	NGFG	RS06525	WP 003703428.1	KLKDQAS	VGAPAPKGP	PAKPVLP	PAVKK
NTDB id 104268	R8565	RS00060	WP 002855574.1	KIKND	ITVE	.....	79
NTDB id 1242	Cj0011c	YP 002343483.1		KIKND	ITIE	.....	79
consensus				*****	****		

 non conserved
 similar
 $\geq 50\%$ conserved