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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.LLVVCALIAGGIFYIFTNSPKPAETLSVEN....LSSS...STKSSVSKFNSSSSEK	65
NTDB id 521	SMSK321	RS04960	WP 000443804.1	MESIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPHTPVKETNLQAE...VVAISKDSSTEKDVKKEEKKEEPV	69
NTDB id 493	SM12261	RS04300	WP 000387351.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSVSEKEVVKKEEKKEEPL	69
NTDB id 263	KZH43	RS04195	WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKEEKKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKEEKKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKEEKKEEPL	69
NTDB id 153	SP	RS04730	WP 000387344.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDSSTEKEVKKEEKKEEPL	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...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 422797	G3T43	RS00055	WP 002855574.1		0
NTDB id 1242	Cj0011c	YP 002343483.1			0
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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	EQDLITVDYKGAVKSPGYYLITYSKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYYPKKEEAY	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.FTSVVLGALVSSSFEEKATXQTAQSVV.....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.YFLLIMLCGLVISPSVCAQSFQDNFQEWKAKQQM..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...VFAQGGFDQQYDAW.....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 422797	G3T43	RS00055	WP 002855574.1	MKKLLFLF..FA.....	10
NTDB id 1242	Cj0011c	YP 002343483.1		MKKLLFLF..FA.....	10
consensus					

NTDB	id	1159	ABDM36	RS04765	WP	001166105.1	VEEGIVITVNINTASAEELATL	LKGIGL	KKAQAI	VDYREANG	PFTH	IDDL	TNVKGIGEAT	VR	95											
NTDB	id	1150	A1552VC	RS08580	WP	001166105.1	VEEGIVITVNINTASAEELATL	LKGIGL	KKAQAI	VDYREANG	PFTH	IDDL	TNVKGIGEAT	VR	95											
NTDB	id	1395	DSB67	RS04445	WP	010649155.1	KYEGIEITVNVNSATAQETATL	LIGIGEK	KAQD	IVEYRNEH	GF	FKTAAD	LTKVKGIGEAT	VR	87											
NTDB	id	1362	HI	1008	AAC22669.1	EAQVAPAVVSDKLNINTATASEIQKSL	TGIGAK	KA	EIVQYREKHG	NFXNAEQ	LLVEQ	QIGIGKAT	LE	104												
NTDB	id	1382	A4U84	RS07375	WP	062924234.1	VAATQKVNANVNVNINTATASEIQDKL	VGIGAK	KA	IAVEYREK	NGKFLN	VEQLTE	VSIGIGKAT	LE	104											
NTDB	id	595	KW2	RS08725	WP	021037687.1	SESTDSP	TG...	SSVSNQ	ISTTSGPK	VNINKAD	LT	ELQK	LTGIGQ	KKQAQD	ID	IFRM	KNGD	FKSI	ED	LK	QVSG	FGDK	KT	LE	209
NTDB	id	521	SMSK321	RS04960	WP	000443804.1	SQHTGSGAP.....SSTS	KDKK	VNLNKAS	LEELKQ	VKGL	G	GGKRAQD	ID	I	HREANG	KFKSV	DEL	LK	KVSG	IGAK	TI	LE	207		
NTDB	id	493	SM12261	RS04300	WP	000387351.1	SQQAGPGTA.....SSTS	KEKK	VNLNKAS	LEELKQ	VKGL	G	GGKRAQD	ID	I	HREANG	KFKSV	DEL	LK	KVSG	IGAK	TI	LE	207		
NTDB	id	263	KZH43	RS04195	WP	000387330.1	SQQTGLGTA.....SSIS	KEKK	VNLNKAS	LEELKQ	VKGL	G	GGKRAQD	ID	I	HREANG	KFKSV	DEL	LK	KVSG	IGGK	TI	LE	207		
NTDB	id	222	SPD	RS04535	WP	000387330.1	SQQTGLGTA.....SSIS	KEKK	VNLNKAS	LEELKQ	VKGL	G	GGKRAQD	ID	I	HREANG	KFKSV	DEL	LK	KVSG	IGGK	TI	LE	207		
NTDB	id	188	SPR	RS04295	WP	000387330.1	SQQTGLGTA.....SSIS	KEKK	VNLNKAS	LEELKQ	VKGL	G	GGKRAQD	ID	I	HREANG	KFKSV	DEL	LK	KVSG	IGGK	TI	LE	207		
NTDB	id	153	SP	RS04730	WP	000387344.1	SQQTGSGTA.....SSTS	KEKK	VNLNKAS	LEELKQ	VKGL	G	GGKRAQD	ID	I	HREANG	KFKSV	DEL	LK	KVSG	IGGK	TI	LE	207		
NTDB	id	1069	ABD1	RS03060	WP	043960841.1	LNISKSSHSN	SSKISQ	TKNFND	STGQ	IHLNQAN	VNEF	QQ	LKGIGEK	KAQAI	IVEYR	QKNGS	FKNI	DEIK	NVKGIG	PAIF	E	128			
NTDB	id	1041	HON27	RS14740	WP	005124713.1	LNITKSSHSN	SGSKISQ	TKNFND	STGQ	IHLNQAN	VNEF	QQ	LKGIGEK	KAQAI	IVEYR	QKNGS	FKNI	DEIK	NVKGIG	PAIF	E	128			
NTDB	id	36	MW	RS08230	WP	001793467.1	EP....QIGVNS..VHV	KNGNTN	NTK	VNLNTASV	SELMS	VPGVGQA	KANA	IVEYR	NQGA	FQE	IDDL	K	VKVG	FGSK	TFD	220				
NTDB	id	20	SA	RS08005	WP	001802022.1	EP....QIEVNS..VHV	KNGNTN	NTK	VNLNTASV	SELMS	VPGVGQA	KANA	IVEYR	NQGA	FQE	IDDL	K	VKVG	FGSK	TFD	220				
NTDB	id	105	BSU	25590	NP	390437.1	V....QQGGGGS..V..	QSDG	GK	GALVNINTAT	LEELQ	ISGV	GPSK	AEAI	IAYRE	ENGR	FQ	TIED	ITKV	SGIGEK	SFE	196				
NTDB	id	1014	ACIAD	RS13855	WP	004924483.1	LNSSASHH	SLSK..P..	TQQSGT	GVKVNINSAT	AKELQ	LHGVI	G	KKALAI	IVEYR	QYQ	GKFAS	VDDL	Q	KVKGIG	PKF	IE	120			
NTDB	id	1127	NGFG	RS10560	WP	003703428.1	SCAFS	LAAV	VNINAAS	QQE	LEA	LPGIG	PAKAKA	IAEY	RAQNG	AFKSV	VDDL	I	KVKGIG	PAV	LA	105				
NTDB	id	1126	NGFG	RS09375	WP	003703428.1	SCAFS	LAAV	VNINAAS	QQE	LEA	LPGIG	PAKAKA	IAEY	RAQNG	AFKSV	VDDL	I	KVKGIG	PAV	LA	105				
NTDB	id	1125	NGFG	RS07215	WP	003703428.1	SCAFS	LAAV	VNINAAS	QQE	LEA	LPGIG	PAKAKA	IAEY	RAQNG	AFKSV	VDDL	I	KVKGIG	PAV	LA	105				
NTDB	id	1108	NGFG	RS06525	WP	003703428.1	SCAFS	LAAV	VNINAAS	QQE	LEA	LPGIG	PAKAKA	IAEY	RAQNG	AFKSV	VDDL	I	KVKGIG	PAV	LA	105				
NTDB	id	422797	G3T43	RS0005																						

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	KNEDRIIF.....	112	
NTDB	id	1382	A4U84	RS07375	WP	062924234.1	KNEDCIVIE.....	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	KNKSRIIAL.....	136
NTDB	id	1041	HON27	RS14740	WP	005124713.1	KNKSRIIAL.....	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	KTKSSITVK.....	205
NTDB	id	1014	ACIAD	RS13855	WP	004924483.1	KNEDRIIAL.....	128
NTDB	id	1127	NGFG	RS10560	WP	003703428.1	KLKDAQSVGAPAPKGPAPVLPVAVKK	131
NTDB	id	1126	NGFG	RS09375	WP	003703428.1	KLKDAQSVGAPAPKGPAPVLPVAVKK	131
NTDB	id	1125	NGFG	RS07215	WP	003703428.1	KLKDAQSVGAPAPKGPAPVLPVAVKK	131
NTDB	id	1108	NGFG	RS06525	WP	003703428.1	KLKDAQSVGAPAPKGPAPVLPVAVKK	131
NTDB	id	422797	G3T43	RS00055	WP	002855574.1	KTKNDITVE.....	79
NTDB	id	1242	Cj0011c	YP	002343483.1	KTKNDITVE.....	79	
consensus							*****	

 non conserved
 similar
 $\geq 50\%$ conserved