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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...VAAVSKDLVSEKEVNKEEKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKEEKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKEEKEEPL	69
NTDB id 153	SP	RS04730	WP 000387344.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDSSTEKEVKKEEKEEPL	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...TENTVVKQEANNDE	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 104822	R8617	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	EQDLITVDYKGAVKSPGYLLDYKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYVPKGEAA	33
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	MQIKT.KIVTIFLSLCLPTLPLLANAEETAPAAQ.....	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.LFSATTFEEKVTTSTEHTPV.....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.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.....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...EKAGGTSEQADEAQVNLAELQDGTVVYIPKKGEETA	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 104822	R8617	RS00055	WP 002855574.1	MKKLFLF..FA.....	10
NTDB id 1242	Cj0011c	YP 002343483.1		MKKLFLF..FA.....	10
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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	PFKTAADL	TKVKGIG	EATVR	87
NTDB id 1362	HI 1008	AAC22669.1	EAQVAPAVVSDKLNINTATASEIQKSL	TGIGAKKA	EAI	VQYREKHG	NFXNAE	QQLLEVQ	GIGKATLE	104
NTDB id 1382	A4U84	RS07375	WP 062924234.1	VAATQKVNANVVNINTATASEIQDKL	VGIGAKKAQAI	IVEYREKNGK	FLNVEQL	TEVSGIG	KATLE	104
NTDB id 595	KW2	RS08725	WP 021037687.1	SESTDSPTG...SSVSNQISTTSGPKVNINKAD	ITELQK.LTGIGQKKAQDI	IDFRMKN	GD	FKSIEDL	GKVS	209
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SQHTGSGAP.....SSTS	SKDKKINLNKASLEELKQ.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	AKTIE	207
NTDB id 493	SM12261	RS04300	WP 000387351.1	SQQAGPGTA.....SSTS	KEKKVNLNKASLEELKQ.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	AKTIE	207
NTDB id 263	KZH43	RS04195	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEELKQ	.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	GKTIE	207
NTDB id 222	SPD	RS04535	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEELKQ	.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	GKTIE	207
NTDB id 188	SPR	RS04295	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEELKQ	.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	GKTIE	207
NTDB id 153	SP	RS04730	WP 000387344.1	SQQTGSGTA.....SSTS	KEKKVNLNKASLEELKQ.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	GKTIE	207
NTDB id 1069	ABD1	RS03060	WP 043960841.1	LNISKSSHSNSSKISQTKNFNDSTGQIHLNQAN	VNEFQQ.LKGIGEKKAQAI	IVEYRQKNGS	FKNIDEI	KNVKGIG	PAIFE	128
NTDB id 1041	HON27	RS14740	WP 005124713.1	LNITKSSHSNGSKISQTKNFNDSTGQIHLNQAN	VNEFQQ.LKGVGEKKAQAI	IVEYRQKNGS	FKNIDEI	KNVKGIG	PAIFE	128
NTDB id 36	MW	RS08230	WP 001793467.1	EP....QIGVNS..VHVKNGNTNNTKVNLTASV	SELMS.VPGVGQAKANA	IVEYRNQQGAF	QEIDDL	KKVKG	FGSKTFD	220
NTDB id 20	SA	RS08005	WP 001802022.1	EP....QIEVNS..VHVKNGNTNNTKVNLTASV	SELMS.VPGVGQAKANA	IVEYRNQQGAF	QEIDDL	KKVKG	FGSKTFD	220
NTDB id 105	BSU	25590	NP 390437.1	V....QQGGGGS..V..QSDGGKGALVNINTAT	LEELQG.ISGVGPSKAEAI	IAYREENG	RFQTI	IEDIT	TKVSGIG	196
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	LNSSASHHSLSK..P..TQQSGTG	VKNINSATAKELQQ.LHGVGEKKALA	IVEYRQQY	GKFASV	DDLQ	KKVKGIG	120
NTDB id 1127	NGFG	RS10560	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIG	PAKAKAIAEYRAQNGAFKSV	VDDL	IKVKGIG	PAVLA	105	
NTDB id 1126	NGFG	RS09375	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIG	PAKAKAIAEYRAQNGAFKSV	VDDL	IKVKGIG	PAVLA	105	
NTDB id 1125	NGFG	RS07215	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIG	PAKAKAIAEYRAQNGAFKSV	VDDL	IKVKGIG	PAVLA	105	
NTDB id 1108	NGFG	RS06525	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIG	PAKAKAIAEYRAQNGAFKSV	VDDL	IKVKGIG	PAVLA	105	
NTDB id 104822	R8617	RS00055	WP 002855574.1	LTAFLFGAVNINTATL	KELKS.LNGIGEAKAKAILEYRKE.ANFTS	IDDL	KKVKGIG	DKLFE	70	
NTDB id 1242	Cj0011c	YP 002343483.1	LTAFLFGAVNINTATL	KELKS.LNGIGEAKAKAILEYRKE.ANFTS	IDDL	KKVKGIG	DKLFE	70		
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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	KNRDCI	IVIE	.....	113
NTDB	id	595	KW2	RS08725	WP	021037687.1	KLKDEI	SID	.....	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	LAI	.....	128
NTDB	id	1127	NGFG	RS10560	WP	003703428.1	KLKDQAS	VGAPAPKGP	AKPVLPAVKK	131
NTDB	id	1126	NGFG	RS09375	WP	003703428.1	KLKDQAS	VGAPAPKGP	AKPVLPAVKK	131
NTDB	id	1125	NGFG	RS07215	WP	003703428.1	KLKDQAS	VGAPAPKGP	AKPVLPAVKK	131
NTDB	id	1108	NGFG	RS06525	WP	003703428.1	KLKDQAS	VGAPAPKGP	AKPVLPAVKK	131
NTDB	id	104822	R8617	RS00055	WP	002855574.1	KIKNDI	ITVE	.....	79
NTDB	id	1242	Cj0011c	YP	002343483.1	KIKNDI	ITIE	.....	79	
consensus							*****	*****		

 non conserved
 similar
 $\geq 50\%$ conserved