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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSVSEKEVKKEEKKEEPL.....	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...VVAISKDSVSEKEVKKEEKEEPL	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 138850	RC14	RS08555	WP 002855574.1		0
NTDB id 1242	Cj0011c	YP 002343483.1			0
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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	EQDLITVDYKGAVKSPGYYLRTYKRYNDKLYLFCMLF.....AKGLLEQADSKSLNLAQKVSDEALVYVPKGEESA.....	33
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	MQIKT.KIVTLFLSLCLPTLPLLANAEEETAPAAQ.....	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.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...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 138850	RC14	RS08555	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	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	PFKTAAD	LTKVKGIGEAT	VR	87											
NTDB id 1362	HI 1008	AAC22669.1	EAQVAPAVVSDKLNINTATASEIQKS	LTGIGAKKA	EAI	VQYREKHGN	FXNAE	QELLE	VQGIGKATLE	104											
NTDB id 1382	A4U84	RS07375	WP 062924234.1	VAATQKVNANV	VNINTATASEIQDK	LVGIGAKKAQAI	IVEYREKNGK	FLNVE	QLTEVSGIGKATLE	104											
NTDB id 595	KW2	RS08725	WP 021037687.1	SESTDSPTG...	SSVSNQISTTSGPKVNINKAD	LT	ELQK	LTGIGQKKAQD	I	IDFRMKN	GDFKSI	EDL	GKVS	GFGDK	TL	209					
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SQHTGSGAP.....	SSTS	SKDKK	INLN	KNASLEELKQ	VKGLGGKRAQD	I	IDHREANGK	FKS	VDEL	KKVSGIGAKTIE	207						
NTDB id 493	SM12261	RS04300	WP 000387351.1	SQQAGPGTA.....	SSTS	KEKK	VNLN	KNASLEELKQ	VKGLGGKRAQD	I	IDHREANGK	FKS	VDEL	KKVSGIGAKTIE	207						
NTDB id 263	KZH43	RS04195	WP 000387330.1	SQQTGLGTA.....	SSIS	KEKK	VNLN	KNASLEELKQ	VKGLGGKRAQD	I	IDHREANGK	FKS	VDEL	KKVSGIGGKTIE	207						
NTDB id 222	SPD	RS04535	WP 000387330.1	SQQTGLGTA.....	SSIS	KEKK	VNLN	KNASLEELKQ	VKGLGGKRAQD	I	IDHREANGK	FKS	VDEL	KKVSGIGGKTIE	207						
NTDB id 188	SPR	RS04295	WP 000387330.1	SQQTGLGTA.....	SSIS	KEKK	VNLN	KNASLEELKQ	VKGLGGKRAQD	I	IDHREANGK	FKS	VDEL	KKVSGIGGKTIE	207						
NTDB id 153	SP	RS04730	WP 000387344.1	SQQTGSGTA.....	SSTS	KEKK	VNLN	KNASLEELKQ	VKGLGGKRAQD	I	IDHREANGK	FKS	VDEL	KKVSGIGGKTIE	207						
NTDB id 1069	ABD1	RS03060	WP 043960841.1	LNISKSSHSNSSKISQTKNFNDSTGQ	IHLN	QANVNE	FQQ	LKGIGE	KKAQAI	IVEYRQKNGS	FKN	IDE	IKNVKGIGPAIFE	128							
NTDB id 1041	HON27	RS14740	WP 005124713.1	LNITKSSHSNGSKISQTKNFNDSTGQ	IHLN	QANVNE	FQQ	LKGIGE	KKAQAI	IVEYRQKNGS	FKN	IDE	IKNVKGIGPAIFE	128							
NTDB id 36	MW	RS08230	WP 001793467.1	EP....QIGVNS..	VHVKNGNTNNTK	VNLNTASVSELMS	VPGVGQAKANA	IVEYRNQ	QGAFQE	IDD	LKKVKGFGSKTFD	220									
NTDB id 20	SA	RS08005	WP 001802022.1	EP....QIEVNS..	VHVKNGNTNNTK	VNLNTASVSELMS	VPGVGQAKANA	IVEYRNQ	QGAFQE	IDD	LKKVKGFGSKTFD	220									
NTDB id 105	BSU 25590	NP 390437.1	V....QQGGGGS..	V..QSDGGKGALVNINTATLEELQG	ISGVGPSKA	EAI	IAYREENG	RFT	IED	ITKVSGIGEK	SFE	196									
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	LNSSASHHSLSK..	P..TQQSGTG	VKNINSAT	AKELQQ	LHGVGE	KKALAI	IVEYRQYQ	GKFASV	DDLQ	KVKGIGPKFIE	120							
NTDB id 1127	NGFG	RS10560	WP 003703428.1	SCAFSLAAVNINAASQQELEA	LPGIGPAKAKAIAEYRAQNGAFKSV	VDDL	IKVKGIGPAVLA	105													
NTDB id 1126	NGFG	RS09375	WP 003703428.1	SCAFSLAAVNINAASQQELEA	LPGIGPAKAKAIAEYRAQNGAFKSV	VDDL	IKVKGIGPAVLA	105													
NTDB id 1125	NGFG	RS07215	WP 003703428.1	SCAFSLAAVNINAASQQELEA	LPGIGPAKAKAIAEYRAQNGAFKSV	VDDL	IKVKGIGPAVLA	105													
NTDB id 1108	NGFG	RS06525	WP 003703428.1	SCAFSLAAVNINAASQQELEA	LPGIGPAKAKAIAEYRAQNGAFKSV	VDDL	IKVKGIGPAVLA	105													
NTDB id 138850	RC14	RS08555	WP 002855574.1	LTAFLFGA	VNINTATL	KELKS	LNGIGEAKAKAILEYRKE	ANFTS	IDD	LKKVKGIGD	KLFE	70									
NTDB id 1242	Cj0011c	YP 002343483.1	LTAFLFGA	VNINTATL	KELKS	LNGIGEAKAKAILEYRKE	ANFTS	IDD	LKKVKGIGD	KLFE	70										
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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	KNRDRIIF	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	KNKSRLIAL	136		
NTDB id 1041	HON27	RS14740	WP 005124713.1	KNKSRLIAL	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	KIKSSIIVK	205			
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	KNRDRLAI	128		
NTDB id 1127	NGFG	RS10560	WP 003703428.1	KLKDQASVGAPAPKGP	PAKPVLP	PAVKK	131
NTDB id 1126	NGFG	RS09375	WP 003703428.1	KLKDQASVGAPAPKGP	PAKPVLP	PAVKK	131
NTDB id 1125	NGFG	RS07215	WP 003703428.1	KLKDQASVGAPAPKGP	PAKPVLP	PAVKK	131
NTDB id 1108	NGFG	RS06525	WP 003703428.1	KLKDQASVGAPAPKGP	PAKPVLP	PAVKK	131
NTDB id 138850	RC14	RS08555	WP 002855574.1	KIKNDITVE	79		
NTDB id 1242	Cj0011c	YP 002343483.1	KIKNDITIE	79			
consensus				*****			

 non conserved
 similar
 $\geq 50\%$ conserved