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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1395	DSB67	RS04445	WP 010649155.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1362	HI 1008	AAC22669.1		MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1382	A4U84	RS07375	WP 062924234.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 595	KW2	RS08725	WP 021037687.1	MEKILDKLKEYWKIM.LLVVICALIAGGIFYIFTNSPKPAETLSVEN....LSSS...STKSSVSKFNSSSSEK	65
NTDB id 521	SMSK321	RS04960	WP 000443804.1	MESIIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV	69
NTDB id 493	SM12261	RS04300	WP 000387351.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSVSEKEVNKKEEKEEPL	69
NTDB id 263	KZH43	RS04195	WP 000387330.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKKEEKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKKEEKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKKEEKEEPL	69
NTDB id 153	SP	RS04730	WP 000387344.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVNKKEEKEEPL	69
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVNKKEEKEEPL	0
NTDB id 1041	HON27	RS14740	WP 005124713.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVNKKEEKEEPL	0
NTDB id 36	MW	RS08230	WP 001793467.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLI GFIFWRQDDYTSRNFENKDNALKQSTSENSSLKVEDVQVKDGDNSK	80
NTDB id 20	SA	RS08005	WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLI GFIFWRQDDYTSRNFENKDTALKQSTSENSSLKLEDVQVKDGDNSK	80
NTDB id 105	BSU 25590	NP 390437.1		MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVVKQEANNDE	57
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	MSRGG	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 138507	RC43	RS08505	WP 002855574.1	MSRGG	0
NTDB id 1242	Cj0011c	YP 002343483.1		MSRGG	0
consensus				MSRGG	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 L V L F C M L EAAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	33
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	EQDLITVDYKGA VKSPG Y L L T Y S R N P K L V L F C M L EAAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	33
NTDB id 1395	DSB67	RS04445	WP 010649155.1	EQDLITVDYKGA VKSPG Y L L T Y S R N P K L V L F C M L EAAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	25
NTDB id 1362	HI 1008	AAC22669.1		EQDLITVDYKGA VKSPG Y L L T Y S R N P K L V L F C M L EAAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	38
NTDB id 1382	A4U84	RS07375	WP 062924234.1	EQDLITVDYKGA VKSPG Y L L T Y S R N P K L V L F C M L EAAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA.....	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.YFVLIMLC LGVISPSVCAQSFDQNFQEWKVKQQM..YDQK.....	49
NTDB id 1041	HON27	RS14740	WP 005124713.1	MQYSMRFWKN...K.YFVLIMLC LGVISPSVCAQSFDQNFQEWKVKQQM..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	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 138507	RC43	RS08505	WP 002855574.1	MKKLLFLF..FA.....	10
NTDB id 1242	Cj0011c	YP 002343483.1		MKKLLFLF..FA.....	10
consensus				MKKLLFLF..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	VQYREKHGN	FXNAEQ	LLEVVQGIG	KATLE	104
NTDB id 1382	A4U84	RS07375	WP 062924234.1	VAATQKVNANV	VNINTATASEIQDKLVGIGAKKAQAI	IVEYREKNGK	FLNVEQL	TEVSGIG	KATLE	104
NTDB id 595	KW2	RS08725	WP 021037687.1	SESTDSPTG...SSVSNQISTTSGPKVNINKAD	LTELQK.LTGIGQKKAQD	IIDFRMKN	GD	FKSIEDL	GKVS	209
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SQHTGSGAP.....SSTS	SKDKKINLNKASLEELKQ.VKGLGGKRAQD	IIDHREANG	KFKSVDEL	KKVSGIG	AKTIE	207
NTDB id 493	SM12261	RS04300	WP 000387351.1	SQQAGPGTA.....SSTSKEKKVNLN	KASLEELKQ.VKGLGGKRAQD	IIDHREANG	KFKSVDEL	KKVSGIG	AKTIE	207
NTDB id 263	KZH43	RS04195	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLN	KASLEELKQ.VKGLGGKRAQD	IIDHREANG	KFKSVDEL	KKVSGIG	GKTIE	207
NTDB id 222	SPD	RS04535	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLN	KASLEELKQ.VKGLGGKRAQD	IIDHREANG	KFKSVDEL	KKVSGIG	GKTIE	207
NTDB id 188	SPR	RS04295	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLN	KASLEELKQ.VKGLGGKRAQD	IIDHREANG	KFKSVDEL	KKVSGIG	GKTIE	207
NTDB id 153	SP	RS04730	WP 000387344.1	SQQTGSGTA.....SSTSKEKKVNLN	KASLEELKQ.VKGLGGKRAQD	IIDHREANG	KFKSVDEL	KKVSGIG	GKTIE	207
NTDB id 1069	ABD1	RS03060	WP 043960841.1	LNISKSSHSNSSKISQTKNFNDSTGQIHLN	QANVNEFQQ.LKGIGEKKAQAI	IVEYRQKNGS	FKNIDEI	KNVKGIG	PAIFE	128
NTDB id 1041	HON27	RS14740	WP 005124713.1	LNITKSSHSNGSKISQTKNFNDSTGQIHLN	QANVNEFQQ.LKGVGEKKAQAI	IVEYRQKNGS	FKNIDEI	KNVKGIG	PAIFE	128
NTDB id 36	MW	RS08230	WP 001793467.1	EP....QIGVNS..VHVKNGNTNNTKVN	LNTASVSELMS.VPGVGQAKANA	IVEYRNQQGAF	QEIDDL	KKVKG	FGSKTFD	220
NTDB id 20	SA	RS08005	WP 001802022.1	EP....QIEVNS..VHVKNGNTNNTKVN	LNTASVSELMS.VPGVGQAKANA	IVEYRNQQGAF	QEIDDL	KKVKG	FGSKTFD	220
NTDB id 105	BSU 25590	NP 390437.1		V....QQGGGGS..V..QSDGGKGALVN	INTATLEELQG.ISGVGPSKAEAI	IAYREENG	RFQTI	IEDIT	TKVSGIG	196
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	LNSSASHHSLSK..P..TQQSGTG	VKNINSATAKELQQ.LHGVGEKKALA	IVEYRQYQK	FASVDDL	QKVKGIG	PKFIE	120
NTDB id 1127	NGFG	RS10560	WP 003703428.1	SCAFSLAAVNINAASQQE	LEA.LPGIGPAKAKAIAEYRAQNGAF	KSVD	DLIKVKGIG	PAVLA		105
NTDB id 1126	NGFG	RS09375	WP 003703428.1	SCAFSLAAVNINAASQQE	LEA.LPGIGPAKAKAIAEYRAQNGAF	KSVD	DLIKVKGIG	PAVLA		105
NTDB id 1125	NGFG	RS07215	WP 003703428.1	SCAFSLAAVNINAASQQE	LEA.LPGIGPAKAKAIAEYRAQNGAF	KSVD	DLIKVKGIG	PAVLA		105
NTDB id 1108	NGFG	RS06525	WP 003703428.1	SCAFSLAAVNINAASQQE	LEA.LPGIGPAKAKAIAEYRAQNGAF	KSVD	DLIKVKGIG	PAVLA		105
NTDB id 138507	RC43	RS08505	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
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		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	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 138507	RC43	RS08505	WP 002855574.1	KIKNDITVE.....	79
NTDB id 1242	Cj0011c	YP 002343483.1		KIKNDITIE.....	79
consensus				**** *	

 non conserved
 similar
 $\geq 50\%$ conserved