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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.LLVVCALIAGGIFYIFTNSPKPAETLSVEN....LSSS..STKSSSVSKFNSSSSSEK	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	MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK	80
NTDB id 20	SA	RS08005	WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFENKDTALKQSTSENSSLSKLEDVQVKDGDNSK	80
NTDB id 105	BSU 25590	NP 390437.1		MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVKQEANDE	57
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVKQEANDE	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 194643	MTVDSCj07	RS00050	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	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAA	33
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAA	33
NTDB id 1395	DSB67	RS04445	WP 010649155.1	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAA	25
NTDB id 1362	HI 1008	AAC22669.1		EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAA	38
NTDB id 1382	A4U84	RS07375	WP 062924234.1	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAA	39
NTDB id 595	KW2	RS08725	WP 021037687.1	NKNEIMVDLKGAVAKPNVYQISSDERLVDLI.....RQAGGFTDQADQKSINLSAKLKDEEVIYVPKVGESSS	133
NTDB id 521	SMSK321	RS04960	WP 000443804.1	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAA	137
NTDB id 493	SM12261	RS04300	WP 000387351.1	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAA	137
NTDB id 263	KZH43	RS04195	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAA	137
NTDB id 222	SPD	RS04535	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAA	137
NTDB id 188	SPR	RS04295	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAA	137
NTDB id 153	SP	RS04730	WP 000387344.1	EQDLITVDVKGAVKSPGIYDLVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAA	137
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MQYSMRFWKN...K.YFVLIMLCGLVISPSVCQAQSFQDNFQEWKVKQKM..YDQK.....	49
NTDB id 1041	HON27	RS14740	WP 005124713.1	MQYSMRFWKN...K.YFVLIMLCGLVISPSVCQAQSFQDNFQEWKVKQKM..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...EKAGGTSEQADEAQVNLAIEILDGTVVYIPKKGEETA	125
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	MSIRHFFT...FEWAT.....LTLFSMQI...VFAAQGFDQQYDQW.....KTQQAHDTR	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 194643	MTVDSCj07	RS00050	WP 002855574.1	MKKLFLF..FA.....	10
NTDB id 1242	Cj0011c	YP 002343483.1		MKKLFLF..FA.....	10
consensus				MKKLFLF..FA.....	10

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	VEEGIVITVNINTASAEELATLLKGIGLKKAAQIVDYREANGPFTHIDDLTNVKGIGEATVR	95
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	VEEGIVITVNINTASAEELATLLKGIGLKKAAQIVDYREANGPFTHIDDLTNVKGIGEATVR	95
NTDB id 1395	DSB67	RS04445	WP 010649155.1	KYEGIEITVNVNSATAQETATLLIGIGEKKAAQDIVFYRNEHGPFKTAADLTQVKGIGEATVR	87
NTDB id 1362	HI 1008	AAC22669.1		EAQVAPAVVSDKLNINTATASEIQKSLTGIGAKKAEIVQYREKHGNGFNXNAEQLLLEVQGIGKATLE	104
NTDB id 1382	A4U84	RS07375	WP 062924234.1	VAATQKVNANVNVNINTATASEIQDKLVGIGAKKAAQIVFYREKNGKFLNVEQLTEVSGIGKATLE	104
NTDB id 595	KW2	RS08725	WP 021037687.1	SESTDSPGTG...SSVSNQISTTSGPKVNINKADITELQK.LTGIGQKKAQDIIDFRMKNNGDFKSIEDLQKVSQFGDKTLE	209
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SQHTGSGAP.....SSTSCKDKKINLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDLKKVSGIGAKTIE	207
NTDB id 493	SM12261	RS04300	WP 000387351.1	SQQAGPGTA.....SSTSKEKKVNLNKAASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDLKKVSGIGAKTIE	207
NTDB id 263	KZH43	RS04195	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKAASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDLKKVSGIGGKTIE	207
NTDB id 222	SPD	RS04535	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKAASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDLKKVSGIGGKTIE	207
NTDB id 188	SPR	RS04295	WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKAASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDLKKVSGIGGKTIE	207
NTDB id 153	SP	RS04730	WP 000387344.1	SQQTGSGTA.....SSTSKEKKVNLNKAASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDLKKVSGIGGKTIE	207
NTDB id 1069	ABD1	RS03060	WP 043960841.1	LNISKSSHSNSSKISQTKNFNDSTGQIHENQANVNEFQQ.LKGIGEKKAAQIVFYRQKNGSFKNIDEIKNVKGIGPAIFE	128
NTDB id 1041	HON27	RS14740	WP 005124713.1	LNITKSSHSNGSKISQTKNFNDSTGQIHENQANVNEFQQ.LKGVGEKKAAQIVFYRQKNGSFKNIDEIKNVKGIGPAIFE	128
NTDB id 36	MW	RS08230	WP 001793467.1	EP....QIGVNS..VHVKNGNTNNTKVNINTASVSELMS.VPGVGQAANAIVEYRNQQGAFQEIDDLKVKVGFSGKTFD	220
NTDB id 20	SA	RS08005	WP 001802022.1	EP....QIEVNS..VHVKNGNTNNTKVNINTASVSELMS.VPGVGQAANAIVEYRNQQGAFQEIDDLKVKVGFSGKTFD	220
NTDB id 105	BSU	25590	NP 390437.1	V....QQGGGGS..V..QSDGGKGALVNINTATILEELQG.ISGVGPSKAEATIAFYREENGRFQTIEDITKVSIGIGESFE	196
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	LNSSASHHSLSK..P..TQQSGTGVKVNINSATAKELQQ.LHGVGEKKALAIIVEYRQQYQKFAVDDDLQKVKGIGPKFIE	120
NTDB id 1127	NGFG	RS10560	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLIKVKGIGPAVLA	105
NTDB id 1126	NGFG	RS09375	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLIKVKGIGPAVLA	105
NTDB id 1125	NGFG	RS07215	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLIKVKGIGPAVLA	105
NTDB id 1108	NGFG	RS06525	WP 003703428.1	SCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLIKVKGIGPAVLA	105
NTDB id 194643	MTVDSCj07	RS00050	WP 002855574.1	LTAFLFGAVNINTATILKELKS.LNGIGEAKAKAILEYRKE..ANFTSIDDLKVKVGIGDKLFE	70
NTDB id 1242	Cj0011c	YP 002343483.1		LTAFLFGAVNINTATILKELKS.LNGIGEAKAKAILEYRKE..ANFTSIDDLKVKVGIGDKLFE	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	KNRDCTVTE.....	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	KNKSRLAL.....	136
NTDB id 1041	HON27	RS14740	WP 005124713.1	KNKSRLAL.....	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	KIKSSITVK.....	205
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	KNRDRLAI.....	128
NTDB id 1127	NGFG	RS10560	WP 003703428.1	KLKDAQSVGAPAPKGPAPKPVLPVAVKK	131
NTDB id 1126	NGFG	RS09375	WP 003703428.1	KLKDAQSVGAPAPKGPAPKPVLPVAVKK	131
NTDB id 1125	NGFG	RS07215	WP 003703428.1	KLKDAQSVGAPAPKGPAPKPVLPVAVKK	131
NTDB id 1108	NGFG	RS06525	WP 003703428.1	KLKDAQSVGAPAPKGPAPKPVLPVAVKK	131
NTDB id 194643	MTVDSCj07	RS00050	WP 002855574.1	KIKNDITVE.....	79
NTDB id 1242	Cj0011c	YP 002343483.1		KIKNDITTE.....	79
consensus				***** ***	

 non conserved
 similar
 $\geq 50\%$ conserved