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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1395	DSB67	RS04445	WP 010649155.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1362	HI 1008	AAC22669.1		MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1382	A4U84	RS07375	WP 062924234.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 595	KW2	RS08725	WP 021037687.1	MEKILDKLKEYWKIM.LLVVICALIAGGIFYIFTNSPKPAETLSVEN....LSSS...STKSSVSKFNSSSSEK	65
NTDB id 521	SMSK321	RS04960	WP 000443804.1	MESIIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV	69
NTDB id 493	SM12261	RS04300	WP 000387351.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSVSEKEVKKEEKEEPL	69
NTDB id 263	KZH43	RS04195	WP 000387330.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 153	SP	RS04730	WP 000387344.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	69
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 1041	HON27	RS14740	WP 005124713.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 105	BSU 25590	NP 390437.1		MNWLNQHKKAIILAASAAVFTAIMIFLATG....KNKE....PVKQAVPT...ETENTVVKQEANNDE	57
NTDB id 36	MW	RS08230	WP 001793467.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLI GFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK	80
NTDB id 20	SA	RS08005	WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLI GFIFWRQDDYTSRNFENKDTALKQSTSENSSLSKLEDVQVKDGDNSK	80
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 1242	Cj0011c	YP 002343483.1		MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 1127	NGFG	RS10560	WP 003703428.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 1126	NGFG	RS09375	WP 003703428.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 1125	NGFG	RS07215	WP 003703428.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 1108	NGFG	RS06525	WP 003703428.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
consensus				MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPSTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	33
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	33
NTDB id 1395	DSB67	RS04445	WP 010649155.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	25
NTDB id 1362	HI 1008	AAC22669.1		EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	36
NTDB id 1382	A4U84	RS07375	WP 062924234.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	37
NTDB id 595	KW2	RS08725	WP 021037687.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	142
NTDB id 521	SMSK321	RS04960	WP 000443804.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	146
NTDB id 493	SM12261	RS04300	WP 000387351.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	146
NTDB id 263	KZH43	RS04195	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	146
NTDB id 222	SPD	RS04535	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	146
NTDB id 188	SPR	RS04295	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	146
NTDB id 153	SP	RS04730	WP 000387344.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	146
NTDB id 1069	ABD1	RS03060	WP 043960841.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	48
NTDB id 1041	HON27	RS14740	WP 005124713.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	48
NTDB id 105	BSU 25590	NP 390437.1		EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	127
NTDB id 36	MW	RS08230	WP 001793467.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	149
NTDB id 20	SA	RS08005	WP 001802022.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	149
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	44
NTDB id 1242	Cj0011c	YP 002343483.1		EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	9
NTDB id 1127	NGFG	RS10560	WP 003703428.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	43
NTDB id 1126	NGFG	RS09375	WP 003703428.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	43
NTDB id 1125	NGFG	RS07215	WP 003703428.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	43
NTDB id 1108	NGFG	RS06525	WP 003703428.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	43
consensus				EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	VEEGIVITVNINTASAEELATLLKGI	94
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	VEEGIVITVNINTASAEELATLLKGI	94
NTDB id 1395	DSB67	RS04445	WP 010649155.1	KYEGIEITVNVNSATAQEITATLLIGIG	86
NTDB id 1362	HI 1008	AAC22669.1		QAEA.....QVAPAVVSDKLNINTATASEIQKSL	103
NTDB id 1382	A4U84	RS07375	WP 062924234.1	QQ.V.....AATQKVNANVVNINTATASEIQDK	103
NTDB id 595	KW2	RS08725	WP 021037687.1	S.....S..VSNQISTTSGPKVNINKADL	208
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SSTSCKDKKINLNKASLEELKQ..VKGL	206
NTDB id 493	SM12261	RS04300	WP 000387351.1	SSTSKEKKVNLNKASLEELKQ..VKGL	206
NTDB id 263	KZH43	RS04195	WP 000387330.1	SSISKEKKVNLNKASLEELKQ..VKGL	206
NTDB id 222	SPD	RS04535	WP 000387330.1	SSISKEKKVNLNKASLEELKQ..VKGL	206
NTDB id 188	SPR	RS04295	WP 000387330.1	SSISKEKKVNLNKASLEELKQ..VKGL	206
NTDB id 153	SP	RS04730	WP 000387344.1	SSTSKEKKVNLNKASLEELKQ..VKGL	206
NTDB id 1069	ABD1	RS03060	WP 043960841.1	KLNISKSSHSNSSKISQTKNFNDSTGQIHLNQAN	127
NTDB id 1041	HON27	RS14740	WP 005124713.1	KLNITKSSHSNGSKISQTKNFNDSTGQIHLNQAN	127
NTDB id 105	BSU 25590	NP 390437.1		QGGG.....GSV....QSDGGKGALVNINTATLE	195
NTDB id 36	MW	RS08230	WP 001793467.1	QIGVNSV.....HV....KNGNTNNTKVNLNTAS	219
NTDB id 20	SA	RS08005	WP 001802022.1	QIEVNSV.....HV....KNGNTNNTKVNLNTAS	219
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	RLNSSASHHSLSKP...TQQSGTGKVNINSA	119
NTDB id 1242	Cj0011c	YP 002343483.1		ALTAFLFGAVNINNTATILKELKS..LNG	69
NTDB id 1127	NGFG	RS10560	WP 003703428.1	FSCAFSLAAVNINAASQQELEA..LPGIG	104
NTDB id 1126	NGFG	RS09375	WP 003703428.1	FSCAFSLAAVNINAASQQELEA..LPGIG	104
NTDB id 1125	NGFG	RS07215	WP 003703428.1	FSCAFSLAAVNINAASQQELEA..LPGIG	104
NTDB id 1108	NGFG	RS06525	WP 003703428.1	FSCAFSLAAVNINAASQQELEA..LPGIG	104
consensus				***! !*! *	

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	RNNAARIL	103
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	RNNAARIL	103
NTDB id 1395	DSB67	RS04445	WP 010649155.1	RKNEDRILL	95
NTDB id 1362	HI 1008	AAC22669.1		EKNRDRRIIF	112
NTDB id 1382	A4U84	RS07375	WP 062924234.1	EKNRDCIVIE	113
NTDB id 595	KW2	RS08725	WP 021037687.1	EKLKDEISID	218
NTDB id 521	SMSK321	RS04960	WP 000443804.1	EKLKDYVTVD	216
NTDB id 493	SM12261	RS04300	WP 000387351.1	EKLKDYVTVD	216
NTDB id 263	KZH43	RS04195	WP 000387330.1	EKLKDYVTVD	216
NTDB id 222	SPD	RS04535	WP 000387330.1	EKLKDYVTVD	216
NTDB id 188	SPR	RS04295	WP 000387330.1	EKLKDYVTVD	216
NTDB id 153	SP	RS04730	WP 000387344.1	EKLKDYVTVD	216
NTDB id 1069	ABD1	RS03060	WP 043960841.1	EKNKSRILAL	136
NTDB id 1041	HON27	RS14740	WP 005124713.1	EKNKSRILAL	136
NTDB id 105	BSU 25590	NP 390437.1		EKIKSSITVK	205
NTDB id 36	MW	RS08230	WP 001793467.1	DKLKSYFTI	228
NTDB id 20	SA	RS08005	WP 001802022.1	DKLKSYFTI	228
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	EKNRDRILAI	128
NTDB id 1242	Cj0011c	YP 002343483.1		EKIKNDITIE	79
NTDB id 1127	NGFG	RS10560	WP 003703428.1	AKLKDQASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1126	NGFG	RS09375	WP 003703428.1	AKLKDQASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1125	NGFG	RS07215	WP 003703428.1	AKLKDQASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1108	NGFG	RS06525	WP 003703428.1	AKLKDQASVGAPAPKGPAPVLPVAVKK	131
consensus				***** ***	

 non conserved
 similar
 $\geq 50\%$ conserved