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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSVEKEVKKEEKEEPL.....	0
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSVEKEVKKEEKEEPL.....	0
NTDB id 1395	DSB67	RS04445	WP 010649155.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSVEKEVKKEEKEEPL.....	0
NTDB id 1362	HI 1008	AAC22669.1		MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSVEKEVKKEEKEEPL.....	0
NTDB id 1382	A4U84	RS07375	WP 062924234.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSVEKEVKKEEKEEPL.....	0
NTDB id 595	KW2	RS08725	WP 021037687.1	MEKILDKLKEYWKIM.LLVVICALIAGGIFYIFTNSPKPAETLSVEN....LSSS...STKSSVSKFNSSSSEK	65
NTDB id 521	SMSK321	RS04960	WP 000443804.1	MESIIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPHTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPL	69
NTDB id 493	SM12261	RS04300	WP 000387351.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSVSEKEVKKEEKEEPL	69
NTDB id 263	KZH43	RS04195	WP 000387330.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
NTDB id 153	SP	RS04730	WP 000387344.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	69
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 1041	HON27	RS14740	WP 005124713.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 105	BSU 25590	NP 390437.1		MNWLNQHKKAIILAASAAVFTAIMIFLATG....KNKE....PVKQAVPT...ETENTVVVKQEANNDE	57
NTDB id 36	MW	RS08230	WP 001793467.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLIIGFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK	80
NTDB id 20	SA	RS08005	WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLIIGFIFWRQDDYTSRNFENKDTALKQSTSENSSLSKLEDVQVKDGDNSK	80
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 388482	F4V26	RS00580	WP 002853093.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 1242	Cj0011c	YP 002343483.1		MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 1127	NGFG	RS10560	WP 003703428.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 1126	NGFG	RS09375	WP 003703428.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 1125	NGFG	RS07215	WP 003703428.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
NTDB id 1108	NGFG	RS06525	WP 003703428.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	0
consensus				MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...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	MQYSMRFWKNKYFVLLIMLCLGV.....ISPSVCAQSFQDNFQEWKVKQMQMYDQ	48
NTDB id 1041	HON27	RS14740	WP 005124713.1	MQYSMRFWKNKYFVLLIMLCLGV.....ISPSVCAQSFQDNFQEWKVKQMQMYDQ	48
NTDB id 105	BSU 25590	NP 390437.1		MQYSMRFWKNKYFVLLIMLCLGV.....ISPSVCAQSFQDNFQEWKVKQMQMYDQ	127
NTDB id 36	MW	RS08230	WP 001793467.1	NKGVPVYVDVKGAVKHPNVYKMTSKD.RVVDLLDKAQ..LLEDADVSQINLSEKLTQKMFIPH.....K.GQKNVEP	149
NTDB id 20	SA	RS08005	WP 001802022.1	NKGVPVYVDVKGAVKHPNVYKMTSKD.RVVDLLDKAQ..LLEDADVSQINLSEKLTQKMFIPH.....K.GQKNVEP	149
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQKKAHDT	44
NTDB id 388482	F4V26	RS00580	WP 002853093.1	MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQKKAHDT	9
NTDB id 1242	Cj0011c	YP 002343483.1		MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQKKAHDT	9
NTDB id 1127	NGFG	RS10560	WP 003703428.1	MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQKKAHDT	43
NTDB id 1126	NGFG	RS09375	WP 003703428.1	MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQKKAHDT	43
NTDB id 1125	NGFG	RS07215	WP 003703428.1	MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQKKAHDT	43
NTDB id 1108	NGFG	RS06525	WP 003703428.1	MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQKKAHDT	43
consensus				MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQKKAHDT	43

NTDB	id	1159	ABDM36 RS04765 WP 001166105.1	VEEGIVITVNINTASAEELATLTKGIGLKKAQAIVDYREANGPFTHIDDLTNVKGIGEATV	94
NTDB	id	1150	A1552VC RS08580 WP 001166105.1	VEEGIVITVNINTASAEELATLTKGIGLKKAQAIVDYREANGPFTHIDDLTNVKGIGEATV	94
NTDB	id	1395	DSB67 RS04445 WP 010649155.1	KYEIEITVNVNSATAQETATLLIGIGEKKAQDIVEYRNEHGFKTAAADLTKVKGIGEATV	86
NTDB	id	1362	HI 1008 AAC22669.1	QAEA.....QVAPAVNSDKLNINTATASEIQKS LTGIGAKKAFAIVQYREKHGNFXNAEQQLLEVQGIGKATL	103
NTDB	id	1382	A4U84 RS07375 WP 062924234.1	QQ.V.....AATQKVNANVVNINTATASEIQDKLVGIGAKKAFAIYEYREKNKFNLNVEQLTEVSGIGKATL	103
NTDB	id	595	KW2 RS08725 WP 021037687.1	S.....S..VSNQISTTSGPKVNINKADLTTELQK.LTGIGQKKQAQDIIDFRMKNNGDFKSIEDLGKVS GF G D K T L	208
NTDB	id	521	SMSK321 RS04960 WP 000443804.1	SSTSCKDKKINLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTI	206
NTDB	id	493	SM12261 RS04300 WP 000387351.1	SSTSKEKKVNLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTI	206
NTDB	id	263	KZH43 RS04195 WP 000387330.1	SSISKEKKVNLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTI	206
NTDB	id	222	SPD RS04535 WP 000387330.1	SSISKEKKVNLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTI	206
NTDB	id	188	SPR RS04295 WP 000387330.1	SSISKEKKVNLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTI	206
NTDB	id	153	SP RS04730 WP 000387344.1	SSTSKEKKVNLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTI	206
NTDB	id	1069	ABD1 RS03060 WP 043960841.1	KLNISSSHSNSSKISQTKNFNDSTGQIHLNQANVNEFFQQ.LKGIGEKKAFAIVEYRKNGSFKNIDEIKNVKGIGPAIF	127
NTDB	id	1041	HON27 RS14740 WP 005124713.1	KLNISSSHSNSSKISQTKNFNDSTGQIHLNQANVNEFFQQ.LKGVGEEKKAFAIVEYRKNGSFKNIDEIKNVKGIGPAIF	127
NTDB	id	105	BSU 25590 NP 390437.1	QGGG.....GSV...QSDGGKGAALVNINTATLEEELQG.ISGVGPSKAEAIAYREENGRFQTIEDITKVSIGIKEFS	195
NTDB	id	36	MW RS08230 WP 001793467.1	QIGVNSV.....HV....KNGNTNNTKVNINTASVSELMS.VPGVGQAKANAIVEYRNQQGAFQEIDDLKVKVGFGSKTF	219
NTDB	id	20	SA RS08005 WP 001802022.1	QIEVNSV.....HV....KNGNTNNTKVNINTASVSELMS.VPGVGQAKANAIVEYRNQQGAFQEIDDLKVKVGFGSKTF	219
NTDB	id	1014	ACIAD RS13855 WP 004924483.1	RLNSSASHHSLSKP...TQQSGTGKVNINSATAKELQQ.LHGVGEEKKALAIVEYRQQYGKFASVDDLQKVKGIGPKFI	119
NTDB	id	388482	F4V26 RS00580 WP 002853093.1	ALTAFLFGAVNINTATLLKELKS.LNGIGEAKAKAILEYRKE.ANFTSIDDLKVKVGIGDKLF	69
NTDB	id	1242	Cj0011c YP 002343483.1	ALTAFLFGAVNINTATLLKELKS.LNGIGEAKAKAILEYRKE.ANFTSIDDLKVKVGIGDKLF	69
NTDB	id	1127	NGFG RS10560 WP 003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNAGAFKSVDDLIKVKGIGPAVL	104
NTDB	id	1126	NGFG RS09375 WP 003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNAGAFKSVDDLIKVKGIGPAVL	104
NTDB	id	1125	NGFG RS07215 WP 003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNAGAFKSVDDLIKVKGIGPAVL	104
NTDB	id	1108	NGFG RS06525 WP 003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNAGAFKSVDDLIKVKGIGPAVL	104
consensus				***** ! * * * ! * * * ! * * * ! * * * ! * * * ! * * * ! * * *	

NTDB	id	Accession	Protein	Sequence	Score
NTDB	id 1159	ABDM36	RS04765	WP 001166105.1	103
NTDB	id 1150	A1552VC	RS08580	WP 001166105.1	103
NTDB	id 1395	DSB67	RS04445	WP 010649155.1	95
NTDB	id 1362	HI 1008	AAC22669.1		112
NTDB	id 1382	A4U84	RS07375	WP 062924234.1	113
NTDB	id 595	KW2	RS08725	WP 021037687.1	218
NTDB	id 521	SMSK321	RS04960	WP 000443804.1	216
NTDB	id 493	SM12261	RS04300	WP 000387351.1	216
NTDB	id 263	KZH43	RS04195	WP 000387330.1	216
NTDB	id 222	SPD	RS04535	WP 000387330.1	216
NTDB	id 188	SPR	RS04295	WP 000387330.1	216
NTDB	id 153	SP	RS04730	WP 000387344.1	216
NTDB	id 1069	ABD1	RS03060	WP 043960841.1	136
NTDB	id 1041	HON27	RS14740	WP 005124713.1	136
NTDB	id 105	BSU	25590	NP 390437.1	205
NTDB	id 36	MW	RS08230	WP 001793467.1	228
NTDB	id 20	SA	RS08005	WP 001802022.1	228
NTDB	id 1014	ACIAD	RS13855	WP 004924483.1	128
NTDB	id 388482	F4V26	RS00580	WP 002853093.1	79
NTDB	id 1242	Cj0011c	YP 002343483.1		79
NTDB	id 1127	NGFG	RS10560	WP 003703428.1	131
NTDB	id 1126	NGFG	RS09375	WP 003703428.1	131
NTDB	id 1125	NGFG	RS07215	WP 003703428.1	131
NTDB	id 1108	NGFG	RS06525	WP 003703428.1	131
consensus					

 non conserved
 similar
 $\geq 50\%$ conserved