

M. barkeri 1 (1) ---MAAKRYTSMAYANADEMTF**G**VSKY**I**VKAGLDLE**I**CAGTYTPEINYAPRPE--AGASK
M. barkeri 2 (1) ---MAVTRCTKMAYASADDMV**F**GKAVT**P**VKTGLELE**I**CAGYTTPEVNYAPRPE--AGASK
M. barkeri 3 (1) ---MVKKYTMAYANADELIF**G**QSKP**F**VKAGLGL**E**I**C**AGYTTPEINYAPRPG--AGVSK
M. acetivorans 1 (1) ---MVKKYTMAYAKADDML**F**GNSKY**F**VKAGLGL**E**I**C**AGYTTPELNLYAPRPQ--AGKSK
M. acetivorans 2 (1) ---MAAKRYTSMAYASADEMD**F**GVSKY**F**VKAGLGL**E**I**C**AGTYTPEVNYAPRPE--AGASK
M. acetivorans 3 (1) ---MAVTRCTKMAYSSADEMV**F**GKATK**F**VKAGLGL**E**I**C**AGYTTPEVNYAPRPE--AGASK
M. mazaei 1 (1) ---MAATRFTKMAYASADEM**F**FGVSKY**F**VKAGLGL**E**I**C**AGTYTPEVNYAPRPE--AGASK
M. mazaei 2 (1) ---MVKKYTMAYANADELIF**G**QCKP**F**VKAGLGL**E**I**C**AGYTTPEVNYAPRPE--AGKSK
M. mazaei 3 (1) ---MAVNRCFTKMSYASADEM**F**GKAVK**F**VKAGLGL**E**I**C**AGYTTPEVNYAPRPE--AGASK
M. burtonii 1 (1) ---MAINRYTCKMAYDSADD**F**IFGKCKP**F**VKAGLGL**E**I**C**AGTYTPEVNYAPRPE--AGASK
M. burtonii 2 (1) -MGLSLKRYNKMAYDDFEDMV**F**FGHSIV**I**IKTGFDL**E**I**C**AGTSAEVNYAPRPA--AGESK
M. stadtmanae 1 (1) ---MSRKYFTKME^NASADEM**F**VGQTKH**F**VKMGLDQVM**C**GEVVPNIKVAPAEG--SEESI
M. stadtmanae 2 (1) ---MSRKYFTKME^NASADEM**F**VGQTKH**F**VKMGLDQVM**C**GEVVPNIKVAPAEG--SEESI
M. stadtmanae 3 (1) ---MVLKRFTKME^NASADEM**F**VGQTKH**F**VKMGLDQVM**C**GEVVPNIKVAPAEG--SEESI
M. stadtmanae 4 (1) ---MAAKRFTKME^NKSDADDLV**F**FGKA**N**VEYGFV**K**L**C**GEVVPNIKVAPAEG--SETSV
M. thermoacetica (1) MDYKPVKTFSELEVKSLLDFVY**G**IAPH**F**VAKNGMV**I**CAGTVYPEINMTLPPMNIEESTM
RC1 (1) ---MSLKLNSMAYQSPDLM**F**MFCSALK**F**DVRRCGMA**I****C**CAVIPEIVPHPRLG--SEQNL

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120

M. barkeri 1 (56) EKLIKEYERITTDV^NERMVQVGF**P**AII**E**TEHVQQMSNNPSWGAEVVAHQKTIMEY**H**DY
M. barkeri 2 (56) EKLIKEYERITTDIMARMVQIGAP**A**AVV**E**TEHVQQMSNHPDWGA^NVAHQKTIMEY**H**DY
M. barkeri 3 (55) EKLIKEYERITTDVMSRMVQIGAPSIV**E**TEHVQQMSNNPEWGGAVA^NVAHQKTIMEEY**H**DY
M. acetivorans 1 (55) DKLVKEYERITTDAMARMVQIGAPSIV**E**TEHVQQMSNNPDWGGAVA^NVAHQKTIMEEY**H**DY
M. acetivorans 2 (56) EKLVKEYERITTDIMGRMVQVGF**P**AVII**E**TEHVQQMSNNPSWGAEVVAHQKTIMEEY**H**DY
M. acetivorans 3 (56) EKLIKEYERITTDIMARMVQIGAPSIV**E**TEHVQQMSNHPDWGA^NVAHQKTIMEY**H**DY
M. mazaei 1 (56) EKLIKEYERITTDIMARMVQVGF**P**AVII**E**TEHVQQMSNNPSWGAEVVAHQKTIMEEY**H**DY
M. mazaei 2 (55) EKLVKEYERITTDIMARMVQIGAPSIV**E**TEHVQQMSNNPDWGGAVA^NVAHQKTIMEEY**H**DY
M. mazaei 3 (56) EKLIKEYERITTDIMARMVQIGAP**A**VV**E**TEHVQQMSNNP^NDWGGAVA^NVAHQKTIMEY**H**DY
M. burtonii 1 (56) EKLVKEYQKITT^NDIMNRVQVGF**P**AVV**E**TEHVQMTNNPTWGG^NVAHQKTIMEEFY**H**DY
M. burtonii 2 (58) EKLIAEYQKITT^NDVLQR^NMVQVGF**P**SVV**E**TEHVQQMTVNP^NSWGAEIAHQKTIMEEFY**H**DY
M. stadtmanae 1 (56) DGLEATSKNIAFAACDRAAAIGL**P**AIQ**E**MEHVQQQSISKEASRCTAVT^NFEELKLDHK
M. stadtmanae 2 (56) DGLEATSKNIAFAACDRAAAIGL**P**AMQ**E**MEHVQQQSISKEASRCTAVT^NFEELKLDHK
M. stadtmanae 3 (56) DGLEATSKNIAFAACERA^NAIGL**P**AMQ**E**TEHVQQQSISREASER^NCTAVT^NFEELKLDHK
M. stadtmanae 4 (56) EGMVATCKNIAFSACDRAAAVGLPTVQ**E**QE^NHVAQQTKSREISAKTTAVQIEQ^NLEELDKH
M. thermoacetica (61) PEVRRQYAEMIEGILK^NR^NDLYA^NPI^NIV**E**LELLPETTMKPEW^NGLIEINKLRLDKMHEYEDK
RC1 (56) KTLLREFERANGDALEQC^NILLGF^NPGI^NIP^NHVSQMTQNPDWGKEIARQTAQIIDDY^NDK

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M. barkeri 1 (116) YGIKCALRH**T**IGDI^NRENREFLQLRG-DKYSVFLEA**F**EQ**A**ENGADLLSV^NSM**G**GGKEVFDY
M. barkeri 2 (116) YGIKCALRH**T**IGDI^NRET^NFLALRG-DKYSVFMEA**F**EQ**A**ONGADM^NLA^NVS^NSM**G**GGKEVFDY
M. barkeri 3 (115) YGIKCALRH**T**IGDI^NRET^NFLQLRG-DKYSTFMEA**F**EQ**A**ANNGADM^NLA^NVS^NSM**G**GGKEVFDY
M. acetivorans 1 (115) YGIKCALRH**T**IGDI^NRED^NDYLQLRG-DKYSTFMEA**F**EQ**A**QONGADLLSV^NSM**G**GGKEVFDY
M. acetivorans 2 (116) YGIKCALRH**T**IGDI^NREN^NFLQLRG-DKYSVFLEA**F**EQ**A**KGADLLSV^NSM**G**GGKEVFDY
M. acetivorans 3 (116) YGIKCALRH**T**IGDI^NRES^NFLQLRG-DKNTFMEA**F**EQ**A**QONGADLLSV^NSM**G**GGKEVFDY
M. mazaei 1 (116) YGIKCALRH**T**IGDI^NREN^NFLQLRG-DKYSVFLEA**F**EQ**A**KGADLLSV^NSM**G**GGKEVFDY
M. mazaei 2 (115) YGIKCALRH**T**IGDI^NRED^NDYLQLRG-DKYSVFMEA**F**EQ**A**VNGADLLSV^NSM**G**GGKEVFDY
M. mazaei 3 (116) YGIKCALRH**T**IGDI^NRES^NRFLELRGGDKYNTFLEA**F**EQ**A**QSGADMLSV^NSM**G**GGKEIFDY
M. burtonii 1 (116) YGIKCALRH**T**PGDI^NREN^NFLDLRG-DKFNVMMES**F**EE^NASNGADM^NLS^NESLGGKSVFDS
M. burtonii 2 (118) YGIKCALRH**T**PAD^NIRGGKEALDLRG-D^NSYGILLES**F**EE^NASNGADM^NLS^NESLGGKSVFDS
M. stadtmanae 1 (116) FGTKVSMMS^NIVADM**E**RE-EENG-LRGSEFDVAMDES**F**EAC^NQNGASMLC^NET^NTVGGKVVSDY
M. stadtmanae 2 (116) FGTKVSMMS^NIVADM**E**RE-EENG-LRGSEFDVAMDES**F**EAC^NQNGASMLC^NET^NTVGGKVVSDY
M. stadtmanae 3 (116) FGAKVSLMS^NIVADM**E**RE-EENG-LRGSEFDIAMDES**F**EAC^NQNGASMLC^NET^NIGGGKVVSDY
M. stadtmanae 4 (116) YGT^NTSLSM^NIIADI^NRE-EDM^NGLRGSDFDVMMDES**F**EAC^NENGT^NSLC^NET^NIGGGKVVSDY
M. thermoacetica (121) YGLKSSLRC^NIPND^NTRE^NILRPL^NMRKRGELLENMF^NIT^NFEKCAEDGADILS^NEST^NGGKEVHD
RC1 (116) YGLSAGYRAT^NIADLRK-PEVAHRRSDRASLILEA**F**EAC^NEH-ADIIIS^NESV^NGGKEISDH

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M. barkeri 1 (175) AVLRNDIPGLL^NSIG**G**LSIDMELI^NWT^NDSKIAKKTG^NTISA**G**DTD**C**AOANTAMF^NIGGGLL
M. barkeri 2 (175) AILRNDMAGVLYGIGV^NLG**S**IDMEMI^NWT^NDSAV^NAKKNV^NIAS**G**DTD**C**AOANTAMF^NIA^NAG^NLL
M. barkeri 3 (174) SILRNDTAGILFGIGV^NLG**S**MDMEMV^NWD^NI^NSDVAKKTGT^NTVSS**G**DTD**C**AOANTAMF^NIA^NAG^NLL
M. acetivorans 1 (174) SILRNDTAGILFGIGV^NLG**S**MDMEMV^NWD^NI^NSDIAKKNGV^NVA^N**G**DTD**C**AOANTAMF^NIA^NAG^NLL
M. acetivorans 2 (175) AVLRNDVAGM^NLYAIG^NLG**S**IDMEMI^NWT^NDSAAIAQKTGT^NVAA**G**DTD**C**AOANTAMF^NIGGGLL
M. acetivorans 3 (175) AILRNDMAGVLF^NGIGV^NLG**S**MDMEMI^NWT^NI^NADVAKKNV^NVA^N**G**DTD**C**AOANTAMF^NIA^NAG^NLL
M. mazaei 1 (175) AVLRNDIAGM^NLYAIG^NLG**S**IDMELI^NWT^NDSIAIAKKTG^NT^NVSA^N**G**DTD**C**AOANTAMF^NIGGGLL
M. mazaei 2 (174) SILRNDTAGILFGIGV^NLG**S**MDMEMV^NWD^NI^NSDIAKKTG^NTV^NS^N**G**DTD**C**AOANTAMF^NIA^NAG^NLL
M. mazaei 3 (176) AILRNDMAGVLF^NGIGV^NLG**S**MDMEMI^NWT^NI^NSDIAKKTG^NT^NIA^N**G**DTD**C**AOANTAMF^NIA^NAG^NLL
M. burtonii 1 (175) AILRNDVPGM^NLYAIG^NLG**S**IDMELI^NWT^NDSVSVAKKHGV^NVS^N**G**DTD**C**SEANTAMF^NIGGGLL
M. burtonii 2 (177) SIIRNDL^NSGVLF^NSIG^NLG**S**TD^NVEFI^NWE^NDSKIAKKHDV^NVA^N**G**DTD**C**SOANTAMF^NIA^NAG^NLL
M. stadtmanae 1 (174) GISRGDAR^NILY^NGIGV^NLG**S**IDMEY^NWT^NDSVIAKRN^NNV^NPG^N**G**DTD**C**AOANTAMF^NFLAGGLT
M. stadtmanae 2 (174) GISRGDAR^NILY^NGIGV^NLG**S**IDMEY^NWT^NDSVIAKRN^NNV^NPG^N**G**DTD**C**AOANTAMF^NFLAGGLT
M. stadtmanae 3 (174) GISRGDVR^NILY^NGIGV^NLG**S**IDMEY^NWT^NDSVIAKRN^NNV^NPG^N**G**DTD**C**AOANTAMF^NFLAGGLT
M. stadtmanae 4 (175) GISRGD^NIR^NILY^NGIGV^NLG**S**IDMEY^NWT^NDSVIAASHHDCV^NPG^N**G**DTD**C**AOANTAMF^NLG^NGLT
M. thermoacetica (181) ALVTCNIRKA^NIFALGVL^NG^NLRVDR^NMRFL^NSN^NLRVIAERTG^NA^NIG^N**G**DTD**C**GA^NTA^NLALA---E
RC1 (174) AIIIRNDVTGMLFAQAQ^NLG^NGR^NDM^NWEW^NPQ^NLVG^NIAKKRG^NCIAG^N**G**DTD**C**AOANV^NMYLAGGFA

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300

M. barkeri	1	(235)	NKLNLAHTIAIVARAISAPSILVAYEAGAVG	GPKDCDGYENIIYRAI	TGMPMTMEGK	TSTCA
M. barkeri	2	(235)	DKNLNAHTIAIARTISAARSLVAYEAGAV	GPKDCDGYENTIVKAIS	AGVPIAOEGK	TSTCA
M. barkeri	3	(234)	DKNLNAHTIAIVARAISAARSQAYEAGAI	GPKDCDGYENSIIKAIS	SGVPIAQEGK	TSTCA
M. acetivorans	1	(234)	DKNLNAHTIAIVARAISAGSILCAYEAGAT	GPKDCDGYENTIIKSIA	AGVPIAOEGK	TSTCA
M. acetivorans	2	(235)	DKNLNAHTIAILARAISAPSLVAYECGA	GPKDCDGYENVIKAIS	TGMPMTM	EGK TSTCA
M. acetivorans	3	(235)	DKNLNAHTIAIIRAIASAARTLVAYEAGAT	GPKDCDGYENSVKAIS	AGVPIAOEGK	TSTCA
M. mazei	1	(235)	DKNLNAHTIAILARAISAPSLVAYECGA	GPKDCDGYENVIKAIS	TGMPMTM	EGK TSTCA
M. mazei	2	(234)	DKNLNAHTIAIVARAISAARSQAYEAGAT	GPKDCDGYENTIVKAIS	AGVPIAOEGK	TSTCA
M. mazei	3	(236)	DKNLNAHTIAIIRAIASAARTLVAYEAGAT	GPKDCDGYENTIVKAIS	AGVPIAOEGK	TSTCA
M. burtonii	1	(235)	DKNLNAHTIAIIRAIASAARTLVAYEAGAV	GPKDCDGYENTIIKAIS	SGVPIAQEGK	SSTCA
M. burtonii	2	(237)	DRKLNAHTIAAVVARAVSAPSLVAYEAGAV	GPKDCDGYENTIIKAIS	AGVPISQEGKGSTCA	
M. stadtmanae	1	(234)	SKNVSHSIIAVARAIAGASLVAVECGA	QGPKDCDGYENPVKAIS	ASVPICAEGK	NATCA
M. stadtmanae	2	(234)	SKNVSHSIIAVARAIAGASLVAVECGA	QGPKDCDGYENPVKAIS	ASVPICAEGK	NATCA
M. stadtmanae	3	(234)	SKNVSHSIIAVARAIAGASLVAVECGA	QGPKDCDGYENPVKAIS	ASVPICAEGK	NATCA
M. stadtmanae	4	(235)	SKNVSHSIIAVARAISGASLVAVECGA	GPKDCDGYENPVKAIS	GGVPICAEGK	NATCA
M. thermoacetica		(238)	QGMIPRPFVAADRVATIPSLVAFEMGAI	GPKDCDGYEGPYMKAI	AGPISMEGK	TAACA
RC1		(234)	SKDVPHSIALCRAMAAGRSIVAYECGAT	GPKDCDGYENPVKAIS	TGLPMSAEGK	TSACA

		301			360	
M. barkeri	1	(295)	HSDFVMGNLVMQCCDCWSNE	SEYHGEFGGTTVQCWSSETLAYDCALMN	TALETK--NDKVL	
M. barkeri	2	(295)	HSDFLMGNIVMQCCCDLWSNE	SEYHGEFGGTTVQCWSSETLAYDCALMN	VALNSG--NEKVL	
M. barkeri	3	(294)	HSDFLMGNIVMQCCCDLWSNE	SEYHGEFGGTTVQCWSSETLAYDCAMMN	VALKTG--KAKDL	
M. acetivorans	1	(294)	HSDFLMGNLTMQCCCDLWSNE	SEYHGEFGGTTVQCWSSETLAYDCAMMN	TSLKLG--KAKDL	
M. acetivorans	2	(295)	HSDFVLGNLIMQCCDCWSNE	SEYHGEFGGTTVQCWSSETLAYDCALMN	TALETK--NEKVL	
M. acetivorans	3	(295)	HSDFLMGNLTMQCCCDLWSNE	SEYHGEFGGTTVQCWSSETLAYDCAMMN	VALDSG--NEKVL	
M. mazei	1	(295)	HSDFVMGNLIMQCCDCWSNE	SEYHGEFGGTTVQCWSSETLAYDCALMN	TALETK--NDKVL	
M. mazei	2	(294)	HSDFLMGNLIVMQCCCDLWSNE	SEYHGEFGGTTVQCWSSETLAYDCAMMN	VALKTG--KAKDL	
M. mazei	3	(296)	HSDFLMGNIVMQCCCDLWSNE	SEYHGEFGGTTVQCWSSETLAYDCAMMN	VALQSG--NEKVL	
M. burtonii	1	(295)	HSDFVMGNLVMQCCCDLWSNE	SEYHAEFGGTSVQCWSSETLAYDCALMN	TATATG--QEKT	
M. burtonii	2	(297)	HSDFVMGNLAMQCCCDLWSNE	SEYRGEFGGTSVQCWSSETLSYDCAMMN	TAIEAG--YAKVF	
M. stadtmanae	1	(294)	HSDFLMGNLTAACVDWWSNE	SVYNREEMGGPTPGVWLQLSYECA	LMN TATQIG--TNKQL	
M. stadtmanae	2	(294)	HSDFLMGNLTAACVDWWSNE	SVYNREEMGGPTPGVWLQLSYECA	LMN TATQIG--TNKQL	
M. stadtmanae	3	(294)	HSDFLMGNLAAACVDWWSNE	SVYNREEMGGPTPGVWLQLSYECA	LMN TATQIG--TNKQL	
M. stadtmanae	4	(295)	HSDFLMGNLACAAVDCWWSNE	SVYNREEMGGPTPGVWLQLSYECA	LMN TATKIN--KEKDL	
M. thermoacetica		(298)	HLSAIGNIAACVCDCMWSNE	SVQNVKLLSAPAVVSTEQI	IYDCRIMN EAAADGRSFALKM	
RC1		(294)	HLSLCGNVTAACVDLWANE	SEYHEMFGGTPAVFT	EL GYDAAMMN SIALG--FHKELE	

		361			420	
M. barkeri	1	(353)	RDLMMQLSDRYRDPQAYM	AYDNAYRVGQSIVKDGNIYLRAKNAA	IECCNIIIEGA-AGK	
M. barkeri	2	(353)	RDMFVASDIYRDAQGYV	AYQNSYSRVGQAIAKDGNDIYLRAKNAA	IECINMSKKE-RAN	
M. barkeri	3	(352)	RDILVLSDKYRDPQGYV	AYDNAYRVAQEIAIKDGNNYLRTKA	IECCNIIIEGVNSGK	
M. acetivorans	1	(352)	RDILTLSDKYRDPQGYV	AYDNAYKVGAEIAKNGDDNYLRTKA	IECCNIVEGINSK	
M. acetivorans	2	(353)	RDLFMLSdryrDPQGYV	AYDNAYKVGAEIAVKGDDNLYLRTKA	VACCDIVSEGA-AGK	
M. acetivorans	3	(353)	RDMFAASDMDYRDPQGYV	AYQNAYRVEGAEIAKSGNDIYVRAKNA	LESIAIVEGA-KGK	
M. mazei	1	(353)	RDLLMLSdryrDPQAYV	AYDNAYRIGQAIVKDGNIYLRAKNAA	ACCDIVSEGA-AGK	
M. mazei	2	(352)	RDILVLSdryrDPQGYV	AYDNAYRVGQAIAKDGNNNYLRSKNA	IECCNLIIEGVGSGK	
M. mazei	3	(354)	RDILVASDMDYRDAQGYV	AYPHAYRVEGAEIVRNDDIYLRAKNAA	LETIKIIIEGA-KGK	
M. burtonii	1	(353)	RDLFMLSdryrDPQGYV	AYDNAYRIGQAIVKDGNIYLRAKNAA	LKSVEIMEEGI-AGK	
M. burtonii	2	(355)	RDVFMLSdryrDPQAFI	AFDNAYRIGEAIVKGDDNLYLRTKA	IEACNIVDEGS-RGQ	
M. stadtmanae	1	(352)	RDTYVLAQDKYRDPQGV	AYDNAYKIGEAITAEGEDIYLRSRA	IRAMELINEAVDEKR	
M. stadtmanae	2	(352)	RDTYVLAQDKYRDPQGV	AYDNAYKIGEAITAEGEDIYLRSRA	IRAMELINEAVDEKR	
M. stadtmanae	3	(352)	RDTYALADKYRDPQGV	SYDNAYEIGKAITAEGEDIYLRSRA	ALKAIELINDAVDQR	
M. stadtmanae	4	(353)	RDIYTLADKYRDPQALI	AYDNAYRIGEAIVAEGEDIYLRSRA	ALEGISIINEAVDEKR	
M. thermoacetica		(358)	RDWLAASDRSLDPQAYV	RPDIVLEISQELVKEK-DAFIATKK	ALAAEVIKRGLARGE	
RC1		(352)	QACMINSDRYSPHGYI	CPDIAWEIGKAIVENNDSMSRAKA	ALKGQLMLSDA--R	

		421			480	
M. barkeri	1	(412)	LELSRFETKALADAKAALAEALPDDMDKF	FMDCLTKYKSEVKVFKPENYGF	-----	
M. barkeri	2	(412)	SSYPDRS	-----	-----	
M. barkeri	3	(412)	RLTRFETNALAKVKADLEALT	DDADQFMSDNLTKFKQEVAVFKTENYGL	-----	
M. acetivorans	1	(412)	LKLTRFETNALAKVKADLEAL	TDDADKFMSDNLTKFKQEVAVFKTENYGL	-----	
M. acetivorans	2	(412)	LELSRFETKALADAKASLDS	LTDMDKFMDCLTKYKSEVKVFLPENYGF	-----	
M. acetivorans	3	(412)	LEISRFTKALADAKAAFEG	LDDDKDFKMSDCDLYKKEVKVFLPENYGL	-----	
M. mazei	1	(412)	LELSRFETKALADAKASLDS	LTDMDKFMDCLTKYKSEVKVFLPENYGF	-----	
M. mazei	2	(412)	KLTRFETNALAKVKADLE	LDADKFMSDNLTKFKQEVAVFKPENYGL	-----	
M. mazei	3	(413)	LELSRFETTALANAKTSF	EALTDADKFMSDCLTKYKQEVVKFPENYGL	-----	
M. burtonii	1	(412)	LELTKEFKGALADAKAALM	ALTDDQDTFMSDCMTKYKEEVVKFLPENYGL	-----	
M. burtonii	2	(414)	LELSRFEKASLAKA	IKSLSLTDEKDVFIEENLNKLSTMESFR-SENYGY	-----	
M. stadtmanae	1	(412)	ILLTRFERDTLDSTM	KTYEQLPDDDKFIKTCIKRYGRKVKEHDPSQYEL	-----	
M. stadtmanae	2	(412)	ILLTRFERDTLDSTM	KTYEQLPDDDKFIKTCIKRYGRKVKEHDPSQYEL	-----	
M. stadtmanae	3	(412)	ILLTRFERDTLDSTM	KTYEQLPDDDKFIKTCIKRYGRKVKEHDPSQYEL	-----	
M. stadtmanae	4	(413)	MFLTRFERDSLDSAQK	TIEQLPEDDKFAKACIKRYGRKVKEHDPSQYEL	-----	
M. thermoacetica		(417)	QVQSSREKKWLDI	NSQSQIETIPDDWEEFWYEIQKELDLEKFR--EYDLEVIMARGASAGN	-----	
RC1		(409)	LRFTAYERDSLGYMKE	LEALPDREGFIDMCLKKYERVKAFK-PASYEL	-----	