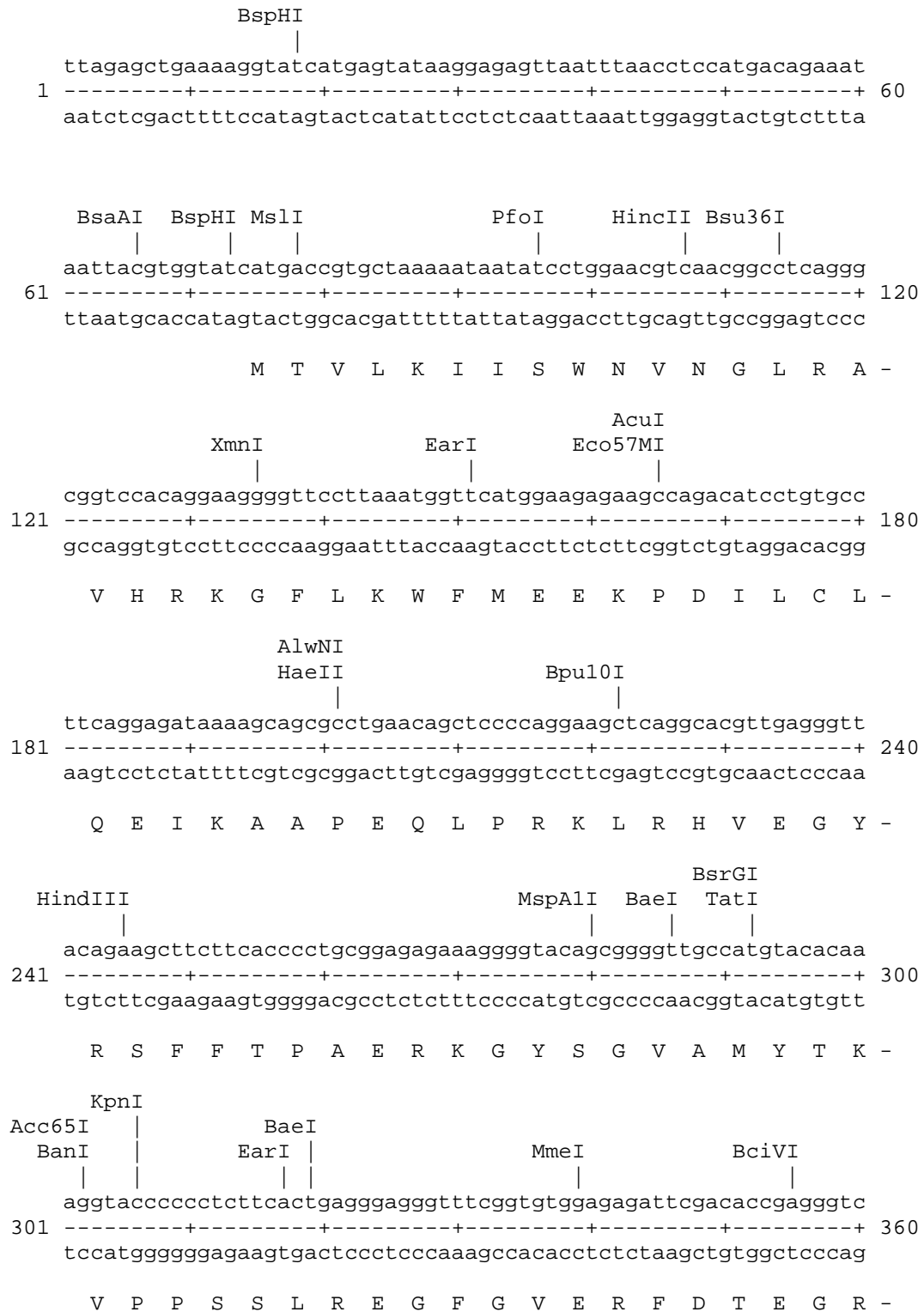


Nucleotide and amino acid sequences of Mth212. Restriction map



```

      BsaBI           BseRI
      |               |
ggatacagatcgagactttgacgacttcctcctctacaacatatacttccccaacggta
361 -----+-----+-----+-----+-----+-----+-----+ 420
cctatgtctagcgtctgaaactgctgaaggaggagatggtgtatatgaaggggttgccat

      I   Q   I   A   D   F   D   D   F   L   L   Y   N   I   Y   F   P   N   G   K   -

                        AcuI
                        Eco57MI
                        ApoI
      BseRI   EcoRI   |   BsmI   SmlI   BsaHI   ZraI
      |       |       |   |       |       |       |
agatgtcagaggagagggtgaagtataaactggaattctatgacgcattccttgaggacg
421 -----+-----+-----+-----+-----+-----+-----+ 480
tctacagtctcctctccgacttcataatttgaccttaagatactgcgtaaggaactcctgc

      M   S   E   E   R   L   K   Y   K   L   E   F   Y   D   A   F   L   E   D   V   -

HincII
AatII |       BpuEI
      ||       |
tcaaccgggagaggggattcggggaggaacgtgattatatgtggggacttcaacacagccc
481 -----+-----+-----+-----+-----+-----+-----+ 540
agttggccctctccctaagccccctccttgccactaatatacacccctgaagttgtgtcggg

      N   R   E   R   D   S   G   R   N   V   I   I   C   G   D   F   N   T   A   H   -

acagggagatagaccttgcaaggccaaaggaaaacagcaacgtatcaggtttccttcccg
541 -----+-----+-----+-----+-----+-----+-----+ 600
tgtccctctatctggaacgttccggttcccttttgcgttgcatagtccaaaggaagggc

      R   E   I   D   L   A   R   P   K   E   N   S   N   V   S   G   F   L   P   V   -

                        AcuI
Eco0109I   ClaI   ApoI   Eco57MI   BsaAI
      |       |       |       |       |
ttgagagggcctggatcgataaatttattgaaaatgggtacgtggacaccttcaggatgt
601 -----+-----+-----+-----+-----+-----+-----+ 660
aactctcccggacctagctattttaataacttttaccatgcacctgtggaagtcctaca

      E   R   A   W   I   D   K   F   I   E   N   G   Y   V   D   T   F   R   M   F   -

                        ApaI
                        BanII
                        Bme1580I
                        Bsp1286I
                        Eco0109I
      TatI   DraIII   SfcI   PspOMI
      |       |       |       |
tcaacagtgacccccggacgtacacatggtggagctacaggacaagggcccgtagagga
661 -----+-----+-----+-----+-----+-----+-----+ 720
agttgtcactggggcctgtcatgtgtaccacctcgatgtcctgttcccgggactctcct

      N   S   D   P   G   Q   Y   T   W   W   S   Y   R   T   R   A   R   E   R   N   -

```

BpmI
 Eco57MI
 BseRI

acgtcggctggagactcgactacttctttgtaaacgaggagttcaaaggaaggttaaaa
 721 -----+-----+-----+-----+-----+-----+ 780
 tgcagccgacctctgagctgatgaagaaacatttgctcctcaagtttccttccaatttt

V G W R L D Y F F V N E E F K G K V K R -

PfoI
 BciVI
 EcoO109I
 PpuMI
 BanII
 Bsp1286I
 PshAI
 BstXI

ggtcctggatactctcagatgtcatgggctcagaccactgtcccataggactggaaatag
 781 -----+-----+-----+-----+-----+ 840
 ccaggacctatgagagctctacagtacccgagctctggtgacagggtatcctgacctttatc

S W I L S D V M G S D H C P I G L E I E -

aactataatcaactcgataaacatcagaaatgtgattaggaactccatcaggcgaaaacta
 841 -----+-----+-----+-----+-----+ 900
 ttgatattagttgagctattgtagctctttacactaatccttgaggtagtccgcttttgat

L *

Enzymes that do cut:

AatII	Acc65I	AcuI	AlwNI	ApaI	ApoI	BaeI	BanI
BanII	BciVI	Bme1580I	BpmI	Bpu10I	BpuEI	BsaAI	BsaBI
BsaHI	BseRI	BsmI	Bsp1286I	BspHI	BsrGI	BstXI	Bsu36I
ClaI	DraIII	EarI	Eco57MI	EcoO109I	EcoRI	HaeII	HincII
HindIII	KpnI	MmeI	MslI	MspAI	PfoI	PpuMI	PshAI
PspOMI	SfcI	SmlI	TatI	XmnI	ZraI		

Enzymes that do not cut:

AarI	AccI	AclI	AfeI	AflII	AflIII	AgeI	AhdI
AleI	AlfI	AloI	ApalI	AscI	AseI	AsiSI	AvaI
AvrII	BamHI	BbeI	BbsI	BbvCI	BcgI	BclI	BfrBI
BglI	BglII	BlpI	BmgBI	BmrI	BmtI	BplI	BsaI
BsaWI	BsaXI	BseYI	BsgI	BsiEI	BsiHKAI	BsiWI	BsmBI
BspEI	BspMI	BsrBI	BsrDI	BsrFI	BssHII	BssSI	BstAPI
BstBI	BstEII	BstYI	BstZ17I	BtgI	BtgZI	BtsI	CspCI
DraI	DrdI	EaeI	EagI	EciI	EcoICRI	EcoNI	EcoRV
FalI	FseI	FspI	FspAI	Hin4I	HpaI	KasI	MfeI
MluI	MscI	NaeI	NarI	NcoI	NdeI	NgoMIV	NheI
NotI	NruI	NsiI	NspI	PacI	PasI	PciI	PflMI
PmeI	PmlI	PpiI	PsiI	PspXI	PsrI	PstI	PvuI
PvuII	RsrII	SacI	SacII	SalI	SanDI	SapI	SbfI
ScaI	SexAI	SfiI	SfoI	SgrAI	SmaI	SnaBI	SpeI
SphI	SrfI	SspI	StuI	StyI	SwaI	TaqII	TstI
Tth111I	XbaI	XcmI	XhoI	XmaI			