



## pETM-11

T7 promoter --> lac operator XbaI  
GAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAAT  
CTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTA

rbs His.Tag  
AATTTTGATTTAACTTTAAGAAGGAGATATACC**ATG**AAACATCACCATCACCATCACCCC  
TTAAAACATAAATTGAAATTCCTCCTCTATATGGTACTTTGTAGTGGTAGTGGTAGTGGGG  
**MET**LysHisHisHisHisHisHisPro

TEV site NcoI  
ATGAGCGATTACGACATCCCCTACTGAGAATCTTTATTTTTCAG GGCGCC**ATG**CGGGCG  
TACTCGCTAATGCTGTAGGGGTGATGACTCTTAGAAATAAAAGTC CCGCGGTACCGCCGC  
MetSerAspTyrAspIleProThrThrGluAsnLeuTyrPheGlu|GlyAla**MET**AlaAla

GCGGTTCCGGATGAAC.. **612bp**.. GACAGTCACAAGGCGTGTCTTGGTCTCTAACTAGTG  
CGCCAAGCCTACTTG... **MAD**... CTGTCAGTGTTCGCACAGAACCAGAGATTGATCAC  
AlaValArgMetAsn.. **204aa**.. AspSerHisLysAlaCysLeuGlyLeu\*\*\*

BamHI SacI NotI  
EagI  
KpnI EcoRI SalI HindIII XhoI His-tag  
GTACCGGATCCGAATTCGAGCTCCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCAC  
CATGGCCTAGGCTTAAGCTCGAGGCAGCTGTTTCGAACGCCGGCGTGAGCTCGTGGTGGTG  
HisHisHis

### Single Cutters Listed by Site Order

80	Bpu1102I	204	Acc65I	1467	ApaBI	3768	SapI
80	EspI	204	Asp718I	1783	MluI	4057	BsiI
158	XhoI	208	KpnI	1797	BclI	4743	SpoI
160	SciI	210	SpeI	1964	BstEII	4743	NruI
166	NotI	212	Eco31I	1994	ApaI	4777	ClaI
173	HindIII	249	PstI	2194	BssHII	4958	XmaI
188	Ecl136II	877	NcoI	2233	EcoRV	4960	SmaI
188	EcoICRI	995	XbaI	2289	HpaI	5086	PvuI
190	SstI	1061	BglII	2865	MstI	5086	XorII
190	SacI	1102	SgrAI	3629	Tth111I	5787	DraIII
192	EcoRI						

### Non Cutting Enzymes

AatII	AflII	AgeI	AhaIII	AscI	AsuII	AvrII
BalI	Bsp1407I	BspMI	Bsu36I	Csp45I	CspI	CvnI
DraI	Eam1105I	Eco72I	FseI	I-PpoI	MfeI	Mlu113I
MscI	MstII	NdeI	NheI	PacI	PinAI	PmaCI
PmeI	RleAI	SacII	SauI	ScaI	SfiI	SnaBI
SplI	SrfI	SstII	StuI	SunI	SwaI	