



## pETM-40

T7 promoter--> Lac operator XbaI  
CGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAATAA  
GCTTTAATTATGCTGAGTGATATCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTATT

rbs  
TTTTGTTTAACTTTAAGAAGGAGATATACCATGAAAATCGAAGAAGGTAAACTGGTAATCTGG  
AAAACAAATTGAAATTCTTCCTCTATATGGTACTTTTAGCTTCTTCCATTTGACCATTAGACC  
METLysIleGluGluGlyLysLeuValIleTrp

ATTAACGGC...**1041bp**...CTGAAAGACGCGCAGACTAATTCGAGCTCGAACAACAACAAC  
TAATTGCCG...**MBP**...GACTTTCTGCGCGTCTGATTAAGCTCGAGCTTGTGTTGTTGTTG  
IleAsnGly...**347aa**...LeuLysAspAlaGlnThrAsnSerSerSerAsnAsnAsnAsn

TEV-site NcoI  
AATAACAATAACAACAACCCCATGAGCGAGAATCTTTATTTTCAG GCGGCC**ATGG**ACTAATGA  
TTATTGTTATTGTTGTTGGGGTACTCGCTCTTAGAAATAAAAATC CCGCGGTACCTGATTACT  
AsnAsnAsnAsnAsnAsnProMetSerGluAsnLeuTyrPheGln|GlyAla**MET**Asp\*\*\*\*\*

BamHI NotI  
EagI  
KpnI EcoRI Sali HindIII XhoI C-His-tag  
GGTACCGGATCCGAATTCGAGCTCCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCACCAC  
CCATGGCCTAGGATTAAGCTCGAGGCAGCTGTTTCGAACGCCGGCGTGAGCTCGTGTTGGTGGTG

### Single Cutters Listed by Site Order

158	XhoI	204	Acc65I	1540	SgrAI	4067	Tth111I
160	SciI	204	Asp718I	1696	SphI	4206	SapI
166	NotI	208	KpnI	2221	MluI	4495	BsiI
166	Eco52I	218	NcoI	2402	BstEII	5181	NruI
166	XmaIII	1102	SplI	2432	ApaI	5181	SpoI
166	EagI	1102	SunI	2671	EcoRV	5215	ClaI
173	HindIII	1239	RleAI	2727	HpaI	5396	XmaI
179	Sali	1329	Eco31I	3285	BglI	5398	SmaI
192	EcoRI	1433	XbaI	3303	MstI	6225	DraIII
198	BamHI						

### Non Cutting Enzymes

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