



## pETM-13

T7 promoter --> lac operator XbaI  
CGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAA  
GCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTT

rbs NcoI  
TAATTTTGTTTAACTTTAAGAAGGAGATATAACC**ATG**GGCCAGATAGAGCCCGGCGTGCAG  
ATTAAAACAAATTGAAATTCTTCCTCTATATGGTACCCGGTCTATCTCGGGCCGCACGTC  
**MET**GlyGlnIleGluProGlyValGln

KpnI BamHI  
TACAACTAC...**744bp**...CAGGCCGAGACAGCGGCTAACAGGTGAGGTACCGGATCC  
ATGTTGATG...**ABD**...GTCCGGCTCTGTGCCGATTGTCCACTCCATGGCCTAGG  
TyrAsnTyr...**248aa**...GlnAlaGluThrAlaAlaAsnArg\*\*\*

SacI NotI  
EcoRI SalI EagI XhoI C-His-tag  
GAATTCGAGCTCCGTCGACAAGCTTGC GGCCGCACTCGAGCACCACCACCACCAC  
CTTAAGCTCGAGGCAGCTGTTCGAACGCCGGCGTGAGCTCGTGTTGGTGGTGGTGGTGGT  
HisHisHisHisHisHis

### Single Cutters Listed by Site Order

80	Bpu1102I	192	EcoRI	1052	XbaI	2922	MstI
80	EspI	198	BamHI	1118	BglII	3686	Tth111I
158	XhoI	204	Asp718I	1159	SgrAI	3825	SapI
160	SciI	204	Acc65I	1315	SphI	4114	BsiI
166	Eco52I	208	KpnI	1524	ApaBI	4357	AlwNI
166	XmaIII	272	SplI	1840	MluI	4800	NruI
166	EagI	272	SunI	1854	BclI	4800	SpoI
166	NotI	859	Bsu36I	2021	BstEII	4834	ClaI
179	SalI	859	SauI	2051	ApaI	5015	XmaI
188	EcoICRI	859	CvnI	2251	BssHII	5017	SmaI
188	Ecl136II	859	MstII	2290	EcoRV	5143	PvuI
190	SstI	917	BspMI	2346	HpaI	5143	XorII
190	SacI	1013	NcoI	2904	BglI	5844	DraIII

### Non Cutting Enzymes

AatII	AflII	AgeI	AhaIII	AscI	AsuII	AvrII
BalI	Bsp1407I	Csp45I	CspI	DraI	Eam1105I	Eco31I
Eco72I	FseI	I-PpoI	MfeI	Mlu113I	MscI	NdeI
NheI	PacI	PinAI	PmaCI	PmeI	PstI	RleAI
SacII	ScaI	SfiI	SnaBI	SpeI	SrfI	SstII
StuI	SwaI					