



## pETM-52

T7 promoter --> Lac operator XbaI  
GAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATCCCCTCTAGAAATAAT  
CTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTATTA

rbs  
TTTGTTTAACTTTAAGAAGGAGATATAAC**ATG**AAAGCGCAGTATGAAGAT...**534bp**..TAC  
AAACAAATTGAAATTCTTCCTCTATATGGTACTTTTTCTAAACCGACCTA..**LL-DsbA**.ATG  
**MET**LysAlaGlnTyrGluAsp...**178aa**..Tyr

His-tag  
TTAAGCGAGAAAAAAGGATCAACTAGTGGTTCTGGTCATCACCATCACCATCACTCCGCGGGT  
AATTCGCTCTTTTTTCTAGTTGATCACCAAGACCAGTAGTGGTAGTGGTAGTGAGGCGCCCA  
LeuSerGluLysLysGlySerThrSerGlySerGlyHisHisHisHisHisHisSerAlaGly

TEV-site NcoI  
GAGAATCTTTATTTTTCAG GCGGCC**ATGGGT**GTCTCAAACATCACA...**294bp**...GTAGAT  
CTCTTAGAAATAAAAGTC CCGCGGTACCCACGAGTTTTGTAGTGT...**RAGE**...CATCTA  
GluAsnLeuTyrPheGln|GlyAla**MET**GlyAlaGlnAsnIleThr....**98aa**...ValAsp

NotI  
KpnI EagI XhoI C-His-tag  
TCTGCCTCTGAATAAGGTACCGCGGCCGCACTCGAGCACCACCACCACCACCTGAGATCCG  
AGACGGAGACTTATTCCATGGAGCCGGCGTGAGCTCGTGGTGGTGGTGGTGGTGACACTAGGC  
SerAlaSerGlu\*\*\* HisHisHisHisHisHisHis\*\*\*

### Single Cutters Listed by Site Order

158	XhoI	204	Asp718I	766	PstI	3082	BglI
160	SciI	204	Acc65I	850	BspMI	3100	MstI
166	XmaIII	208	KpnI	1131	AscI	4003	SapI
166	NotI	289	Eco31I	1142	AgeI	4978	NruI
166	Eco52I	546	NcoI	1142	PinAI	4978	SpoI
166	EagI	577	Mlu113I	1230	XbaI	5012	ClaI
179	SalI	579	SstII	1337	SgrAI	5193	XmaI
188	EcoICRI	579	SacII	1493	SphI	5195	SmaI
188	Ecl136II	610	SpeI	1702	ApaBI	5321	PvuI
190	SstI	632	AflII	2018	MluI	5321	XorII
190	SacI	748	MfeI	2032	BclI	6022	DraIII
192	EcoRI						

### Non Cutting Enzymes

AatII	AhaIII	AsuII	AvrII	BalI	Bsp1407I
Bsu36I	Csp45I	CspI	CvnI	DraI	Eam1105I
Eco72I	FseI	I-PpoI	MscI	MstII	NdeI
NheI	PacI	PmaCI	PmeI	RleAI	SauI
ScaI	SfiI	SnaBI	SplI	SrfI	StuI
SunI	SwaI				