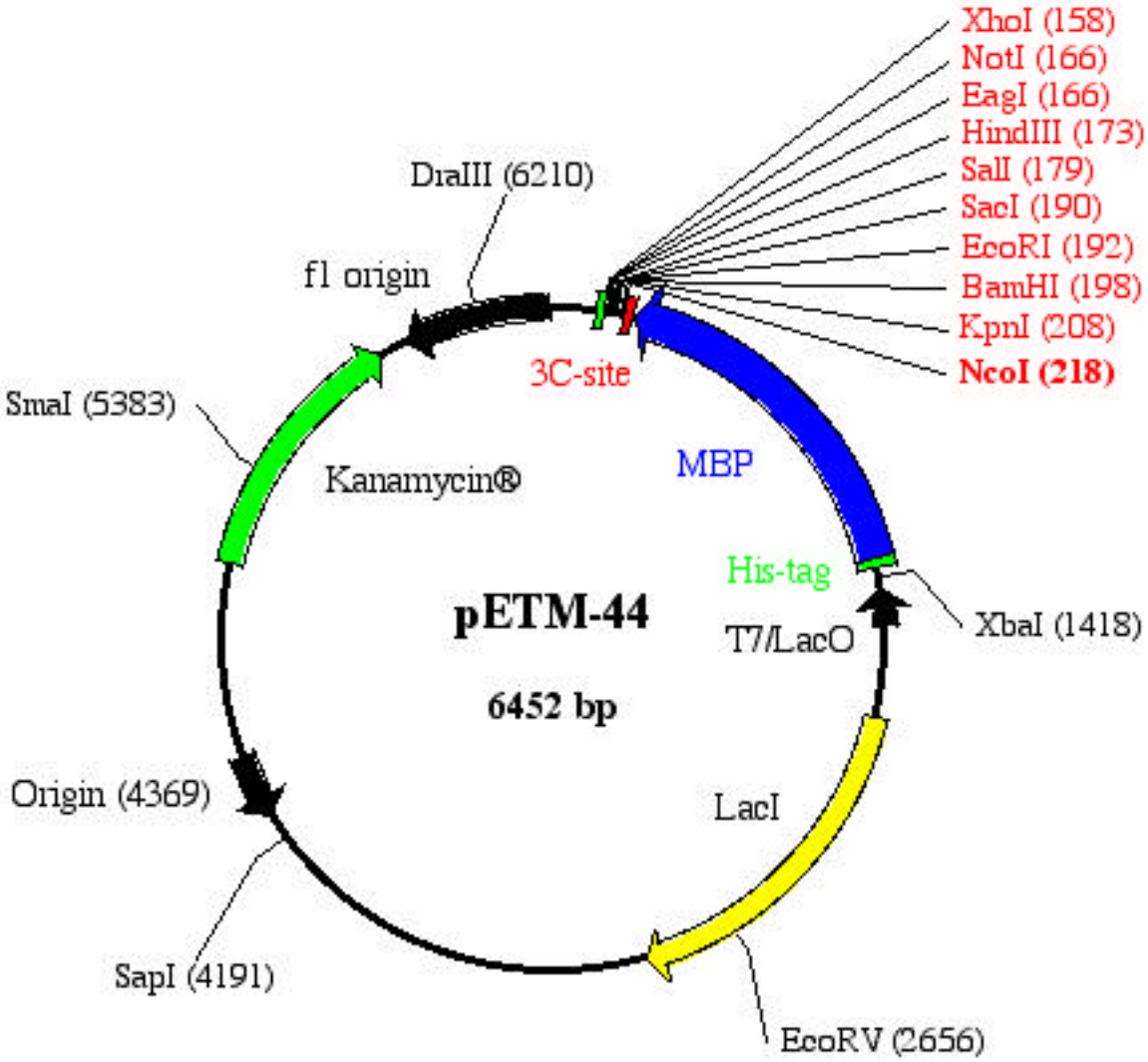
XhoI (158)
NotI (166)
EagI (166)
HindIII (173)
SalI (179)
SacI (190)
EcoRI (192)
BamHI (198)
KpnI (208)
NcoI (218)
DraIII (6210)
f1 origin
3C-site
SmaI (5383)
Kanamycin®
MBP
His-tag
pETM-44
6452 bp
T7/LacO
XbaI (1418)
Origin (4369)
LacI
SapI (4191)
EcoRV (2656)

pETM-44

```
      T7 promoter  -->          Lac operator     XbaI
CGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAA
GCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTT

                        Rbs                 His-tag
TAATTTTGTTTAACTTTAAGAAGGAGATATACCATGAAACATCACCATCACCATCACCCC
ATTAAAACAAATTGAAATTCTTCCTCTATATGGTACTTTTAGCTTCTTCCATTTGACCAT
                                   METLysHisHisHisHisHisHisPro


ATGAAAATCGAAGAAGGTAAACTG...1250bp...GATGAAGCCCTGAAAGACGCGCAG
TACTTTTAGCTTCTTCCATTTGAC.....MBP....CTACTTCGGGACTTTCTGCGCGTC
METLysIleGluGluGlyLysLeu....350aa...AspGluAlaLeuLysAspAlaGln


                  3C-site  NcoI          KpnI  BamHI
ACTCCGGGTAGCCTGGAAGTTCTGTTCCAG GGGCCCATGGACTAATGAGGTACCGGATCC
TGAGGCCCATCGGACCTTCAAGACAAGGTC CCCGGGTACCTGATTACTCCATGGCCTAGG
ThrProGlySerLeuGluValLeuPgeGln|GlyProMETAsp******

                            NotI
 EcoRI SacI   SalI HindIII EagI    XhoI        C-His-tag
GAATTCGAGCTCCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCACCACCACCACTG
ATTAAGCTCGAGGCAGCTGTTCGAACGCCGGCGTGAGCTCGTGGTGGTGGTGGTGGTGAC
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Single Cutters Listed by Site Order

158	XhoI	190	SstI	1197	RleAI	3288	MstI
160	SciI	190	SacI	1287	Eco31I	4052	Tth111I
166	EagI	192	EcoRI	1418	XbaI	4191	SapI
166	XmaIII	198	BamHI	1525	SgrAI	4480	BsiI
166	NotI	204	Asp718I	1681	SphI	5166	SpoI
166	Eco52I	204	Acc65I	2206	MluI	5166	NruI
173	HindIII	208	KpnI	2387	BstEII	5200	ClaI
179	SalI	218	NcoI	2656	EcoRV	5381	XmaI
188	Ecl136II	1060	SplI	2712	HpaI	5383	SmaI
188	EcoICRI	1060	SunI	3270	BglI	6210	DraIII

Non Cutting Enzymes

AatII	AflII	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			