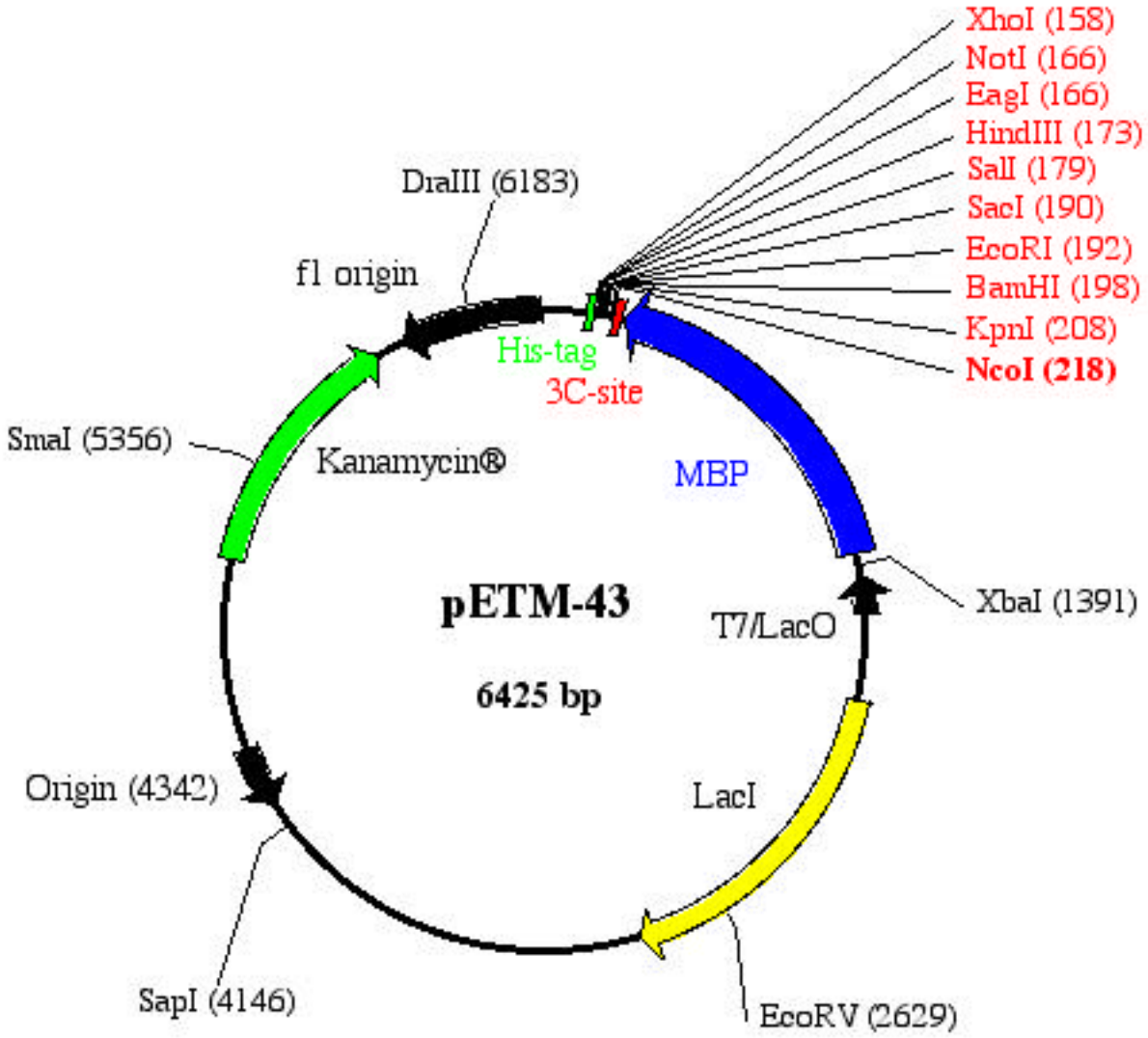
XhoI (158)
NotI (166)
EagI (166)
HindIII (173)
SalI (179)
SacI (190)
EcoRI (192)
BamHI (198)
KpnI (208)
NcoI (218)
DraIII (6183)
f1 origin
His-tag
3C-site
SmaI (5356)
Kanamycin®
MBP
pETM-43
6425 bp
T7/LacO
XbaI (1391)
Origin (4342)
LacI
SapI (4146)
EcoRV (2629)

pETM-43

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      T7 promoter  -->          Lac operator     XbaI
CGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAA
GCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTT

                      rbs
TAATTTTGTTTAACTTTAAGAAGGAGATATACCATGAAAATCGAAGAAGGTAAACTGGTA
ATTAAAACAAATTGAAATTCTTCCTCTATATGGTACTTTTAGCTTCTTCCATTTGACCAT
                                  METLysIleGluGluGlyLysLeuVal


ATCTGGATTAACGGC...1029bp...GTCGATGAAGCCCTGAAAGACGCGCAGACTCCG
TAGACCTAATTGCCG.....MBP....CAGCTACTTCGGGACTTTCTGCGCGTCTGAGGC
IleTrpIleAsnGly....343aa...ValAspGluAlaLeuLysAspAlaGlnThrPro


                  3C-site  NcoI          KpnI  BamHI EcoRI
GGTAGCCTGGAAGTTCTGTTCCAG GGGCCCATGGACTAATGAGGTACCGGATCCGAATTC
CCATCGGACCTTCAAGACAAGGTC CCCGGGTACCTGATTACTCCATGGCCTAGGATTAAG
GlySerLeuGluValLeuPgeGln|GlyProMETAsp******

                              NotI
SacI    SalI HindIII EagI     XhoI          C-His-tag
GAGCTCCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCACCACCACCACTGAGATCC
CTCGAGGCAGCTGTTCGAACGCCGGCGTGAGCTCGTGGTGGTGGTGGTGGTGACTCTAGG
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Single Cutters Listed by Site Order

158	XhoI	190	SstI	1197	RleAI	3261	MstI
160	SciI	190	SacI	1287	Eco31I	4025	Tth111I
166	EagI	192	EcoRI	1391	XbaI	4164	SapI
166	XmaIII	198	BamHI	1498	SgrAI	4453	BsiI
166	NotI	204	Asp718I	1654	SphI	5139	SpoI
166	Eco52I	204	Acc65I	2179	MluI	5139	NruI
173	HindIII	208	KpnI	2360	BstEII	5173	ClaI
179	SalI	218	NcoI	2629	EcoRV	5354	XmaI
188	Ecl136II	1060	SplI	2685	HpaI	5356	SmaI
188	EcoICRI	1060	SunI	3243	BglI	6183	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			