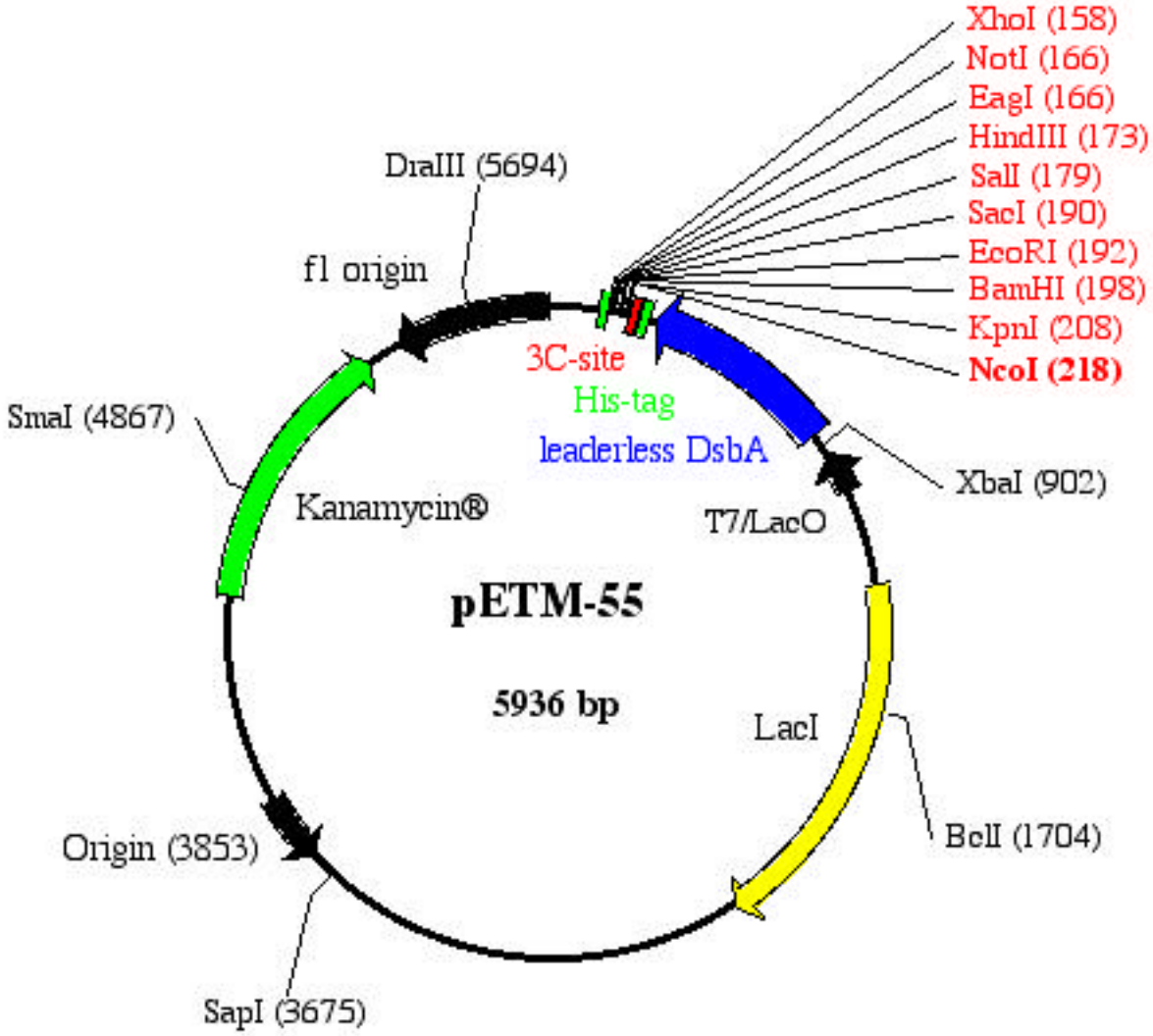
XhoI (158)
NotI (166)
EagI (166)
HindIII (173)
SalI (179)
SacI (190)
EcoRI (192)
BamHI (198)
KpnI (208)
NcoI (218)
DraIII (5694)
f1 origin
3C-site
His-tag
leaderless DsbA
SmaI (4867)
XbaI (902)
Kanamycin®
T7/LacO
pETM-55
5936 bp
LacI
BclI (1704)
Origin (3853)
SapI (3675)

pETM-55

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

                        rbs
TAATTTTGTTTAACTTTAAGAAGGAGATATACCATGAAAGCGCAGTATGAAGATGGTAAA
ATTAAAACAAATTGAAATTCTTCCTCTATATGGTACTTTCGCGTCATACTTCTACCATTT
                                  METlysAlaGlnTyrGluAspGlyLys

CAGTACACTACCCTGGAAAAACCG.....249bp.....CAGTATGCTGATACAGTGAAA
GTCATGTGATGGGACCTTTTTGGC....LL-DsbA....GTCATACGACTATGTCACTTT
GlnTyrThrThrLeuGluLysPro......83aa.....GlnTyrAlaAspThrValLys

                                                 His-tag
TACTTAAGCGAGAAAAAAGGATCAACTAGTGGTTCTGGTCATCACCATCACCATCACTCC
ATGAATTCGCTCTTTTTTCCTAGTTGATCACCAAGACCAGTAGTGGTAGTGGTAGTGAGG
TyrLeuSerGluLysLysGlySerThrSerGlySerGlyHisHisHisHisHisHisSer

                  3C-site   NcoI          KpnI BamHI EcoRI
GCGGGTCTGGAAGTTCTGTTCCAG GGGCCCATGGACTAATGAGGTACCGGATCCGAATTC
CGCCCAGACCTTCAAGACAAGGTC CCCGGGTACCTGATTACTCCATGGCCTAGGCTTAAG
AlaGlyLeuGluValLeuPheGln|GlyProMETAsp******

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

158	XhoI	198	BamHI	803	AscI	3675	SapI
160	SciI	204	Asp718I	814	AgeI	3964	BsiI
166	XmaIII	204	Acc65I	814	PinAI	4207	AlwNI
166	Eco52I	208	KpnI	902	XbaI	4339	Eco57I
166	NotI	218	NcoI	1009	SgrAI	4650	SpoI
166	EagI	249	Mlu113I	1165	SphI	4650	NruI
173	HindIII	251	SacII	1374	ApaBI	4684	ClaI
179	SalI	251	SstII	1690	MluI	4865	XmaI
188	EcoICRI	282	SpeI	1704	BclI	4867	SmaI
188	Ecl136II	304	AflII	2754	BglI	4993	XorII
190	SstI	420	MfeI	2772	MstI	4993	PvuI
190	SacI	438	PstI	3536	Tth111I	5694	DraIII
192	EcoRI	522	BspMI				

Non Cutting Enzymes

AatII	AhaIII	AsuII	AvrII	BalI	Bsp1407I
Bsu36I	Csp45I	CspI	CvnI	DraI	Eam1105I
Eco31I	Eco72I	FseI	I-PpoI	MscI	MstII
NdeI	NheI	PacI	PmaCI	PmeI	RleAI
SauI	ScaI	SfiI	SnaBI	SplI	SrfI
StuI	SunI	SwaI			