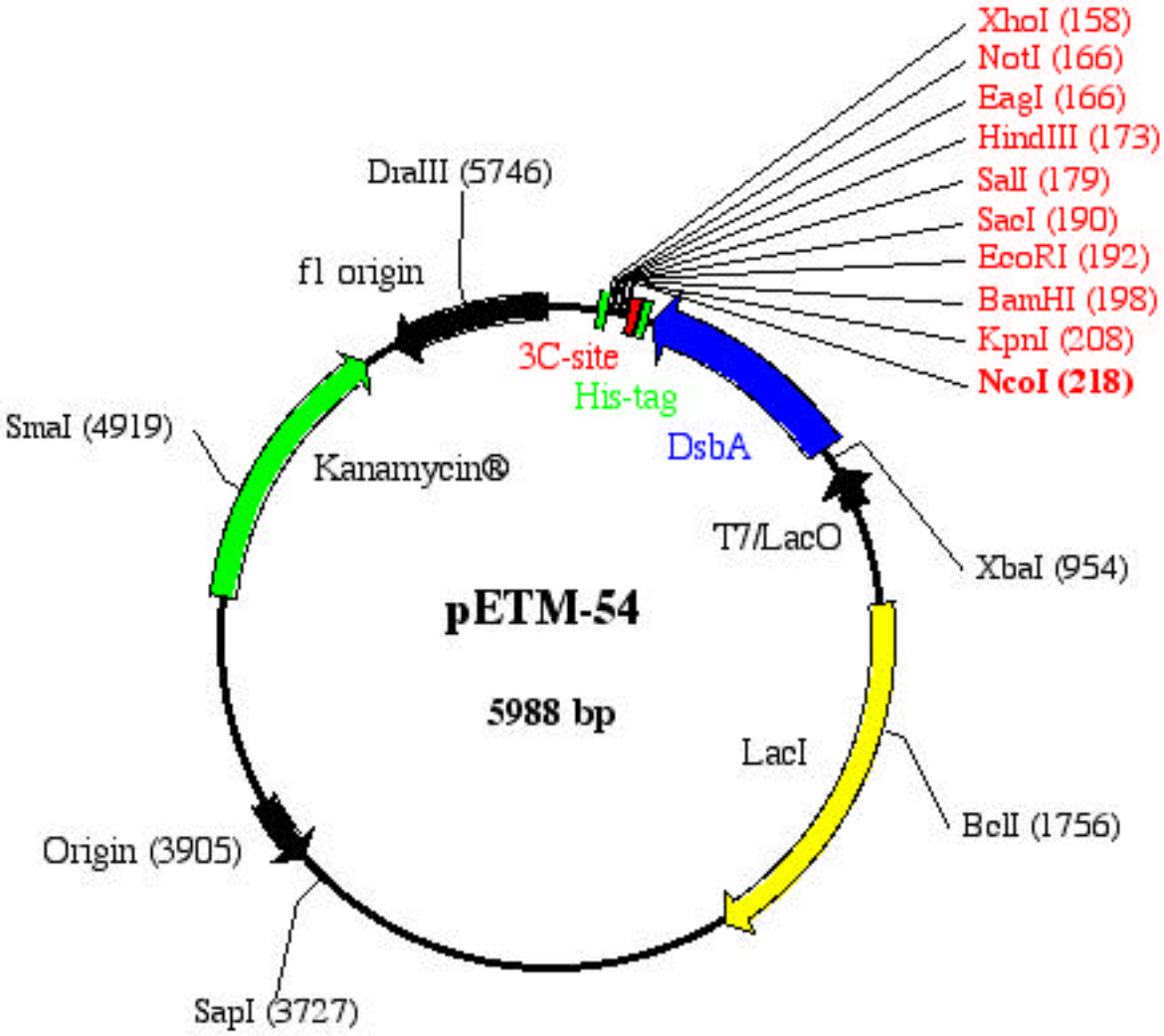
XhoI (158)
NotI (166)
EagI (166)
HindIII (173)
SalI (179)
SacI (190)
EcoRI (192)
BamHI (198)
KpnI (208)
NcoI (218)
DraIII (5746)
f1 origin
3C-site
His-tag
DsbA
SmaI (4919)
Kanamycin®
T7/LacO
XbaI (954)
pETM-54
5988 bp
LacI
BclI (1756)
Origin (3905)
SapI (3727)

pETM-54

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     T7 promoter  -->              Lac operator     XbaI
GAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAAT
CTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTA

                        rbs
AATTTTGTTTAACTTTAAGAAGGAGATATACATATGAAAAAGATTTGGCTGGCGCTGGCT
TTAAAACAAATTGAAATTCTTCCTCTATATGTATACTTTTTCTAAACCGACCGCGACCGA
                                  METLysLysIleTrpLeuAlaLeuAla

GGTTTAGTTTTAGCGTTTAGCGCA....531bp...CAGCAGTATGCTGATACAGTGAAA
CCAAATCAAAATCGCAAATCGCGT.....DsbA...GTCGTCATACGACTATGTCACTTT
GlyLeuGlyLeuAlaPheSerAla....177aa...GlnGlnTyrAlaAspThrValLys

                                                 His-tag
TACTTAAGCGAGAAAAAAGGATCAACTAGTGGTTCTGGTCATCACCATCACCATCACTCC
ATGAATTCGCTCTTTTTTCCTAGTTGATCACCAAGACCAGTAGTGGTAGTGGTAGTAAGG
TyrLeuSerGluLysLysGlySerThrSerGlySerGlyHisHisHisHisHisHisSer

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

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

158	XhoI	198	BamHI	803	AscI	3727	SapI
160	SciI	204	Acc65I	814	AgeI	4016	BsiI
166	XmaIII	204	Asp718I	814	PinAI	4259	AlwNI
166	Eco52I	208	KpnI	916	NdeI	4391	Eco57I
166	NotI	218	NcoI	954	XbaI	4702	SpoI
166	EagI	249	Mlu113I	1061	SgrAI	4702	NruI
173	HindIII	251	SacII	1217	SphI	4736	ClaI
179	SalI	251	SstII	1426	ApaBI	4917	XmaI
188	EcoICRI	282	SpeI	1742	MluI	4919	SmaI
188	Ecl136II	304	AflII	1756	BclI	5045	XorII
190	SstI	420	MfeI	2806	BglI	5045	PvuI
190	SacI	438	PstI	2824	MstI	5746	DraIII
192	EcoRI	522	BspMI	3588	Tth111I		

Non Cutting Enzymes

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