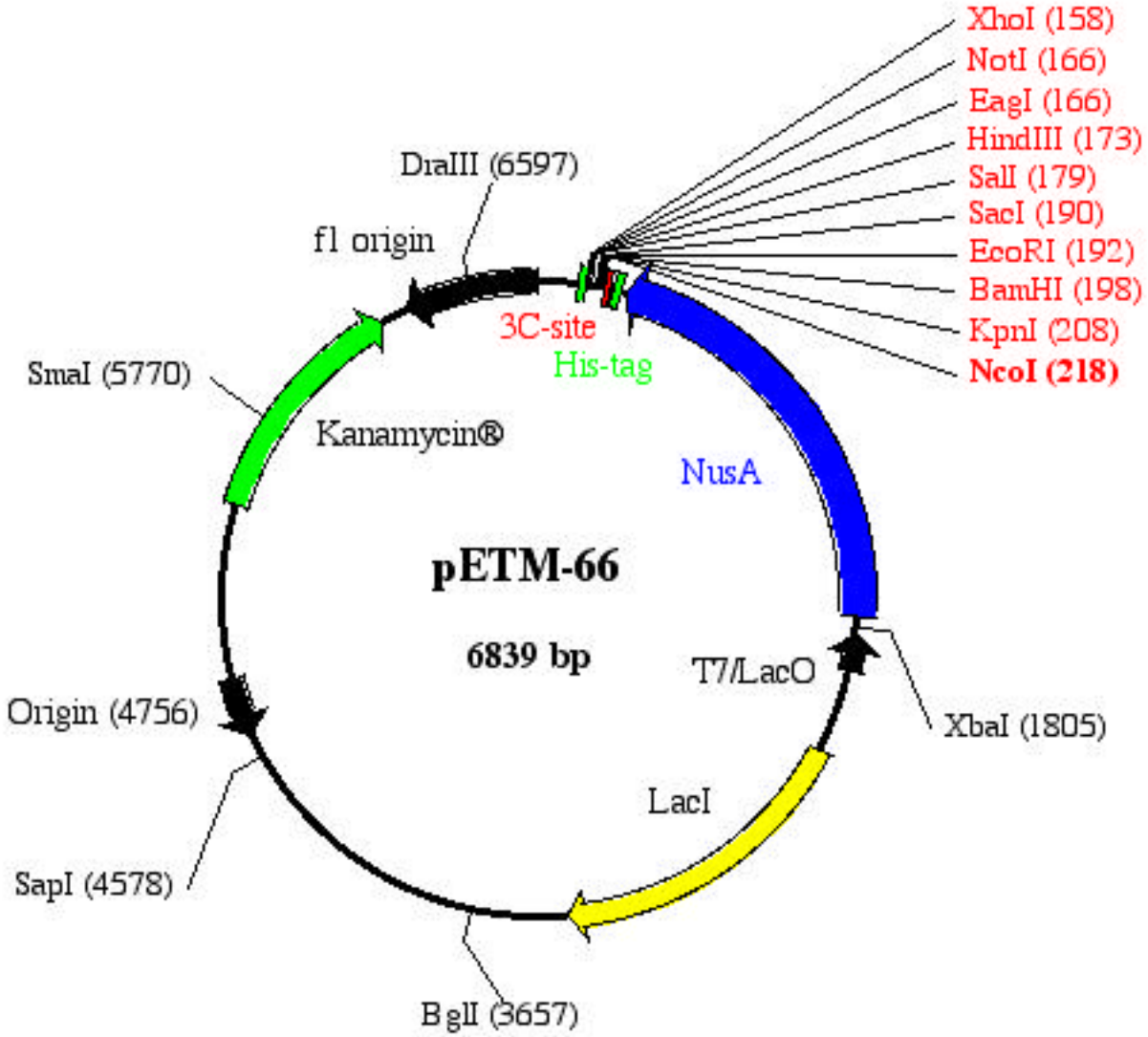
XhoI (158)
NotI (166)
EagI (166)
HindIII (173)
SalI (179)
SacI (190)
EcoRI (192)
BamHI (198)
KpnI (208)
NcoI (218)
DraIII (6597)
f1 origin
3C-site
His-tag
SmaI (5770)
Kanamycin®
NusA
pETM-66
6839 bp
T7/LacO
Origin (4756)
XbaI (1805)
LacI
SapI (4578)
BglI (3657)

pETM-66

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     T7 promoter  -->            Lac operator     XbaI
CGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAA
GCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTT

                        rbs
TAATTTTGTTTAACTTTAAGAAGGAGATATACCATGAAAGAAATTTTGGCTGTAGTTGAA
ATTAAAACAAATTGAAATTCTTCCTCTATATGGTACTTTCTTTAAAACCGACATCAACTT
                                  METLysGluIleLeuAlaValValGlu

GCCGTATCCAATGAAAAGGCGCTA...1383bp...GCACTGATTATGGCTGCCCGTAAT
CGGCATAGGTTACTTTTCCGCGAT....NusA....CGTGACTAATACCGACGGGCATTA
AlaValSerAsnGluLysGlyLeu....461aa...AlaLeuIleMetAlaAlaArgAsn

                                              His-tag
ATTTGCTGGTTCGGTGACGAAGCGACTAGTGGTTCTGGTCATCACCATCACCATCACTCC
TAAACGACCAAGCCACTGCTTCGCTGATCACCAAGACCAGTAGTGGTAGTGGTAGTGAGG
IleCysTrpPheGlyAspGluAlaThrSerGlySerGlyHisHisHisHisHisHisSer

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

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

158	XhoI	190	SstI	529	MscI	2774	BstEII
160	SciI	192	EcoRI	529	BalI	3099	HpaI
166	XmaIII	198	BamHI	582	StuI	3657	BglI
166	NotI	204	Asp718I	731	BspMI	3675	MstI
166	EagI	204	Acc65I	961	RleAI	4439	Tth111I
166	Eco52I	208	KpnI	1642	AatII	4578	SapI
173	HindIII	218	NcoI	1699	AsuII	5110	AlwNI
179	SalI	249	Mlu113I	1699	Csp45I	5768	XmaI
188	EcoICRI	251	SstII	1805	XbaI	5770	SmaI
188	Ecl136II	251	SacII	2068	SphI	6597	DraIII
190	SacI	282	SpeI	2593	MluI		

Non Cutting Enzymes

AflII	AgeI	AhaIII	AscI	AvrII	Bsp1407I
Bsu36I	CspI	CvnI	DraI	Eam1105I	Eco31I
Eco72I	FseI	I-PpoI	MfeI	MstII	NdeI
NheI	PacI	PinAI	PmaCI	PmeI	PstI
SauI	ScaI	SfiI	SnaBI	SplI	SrfI
SunI	SwaI				