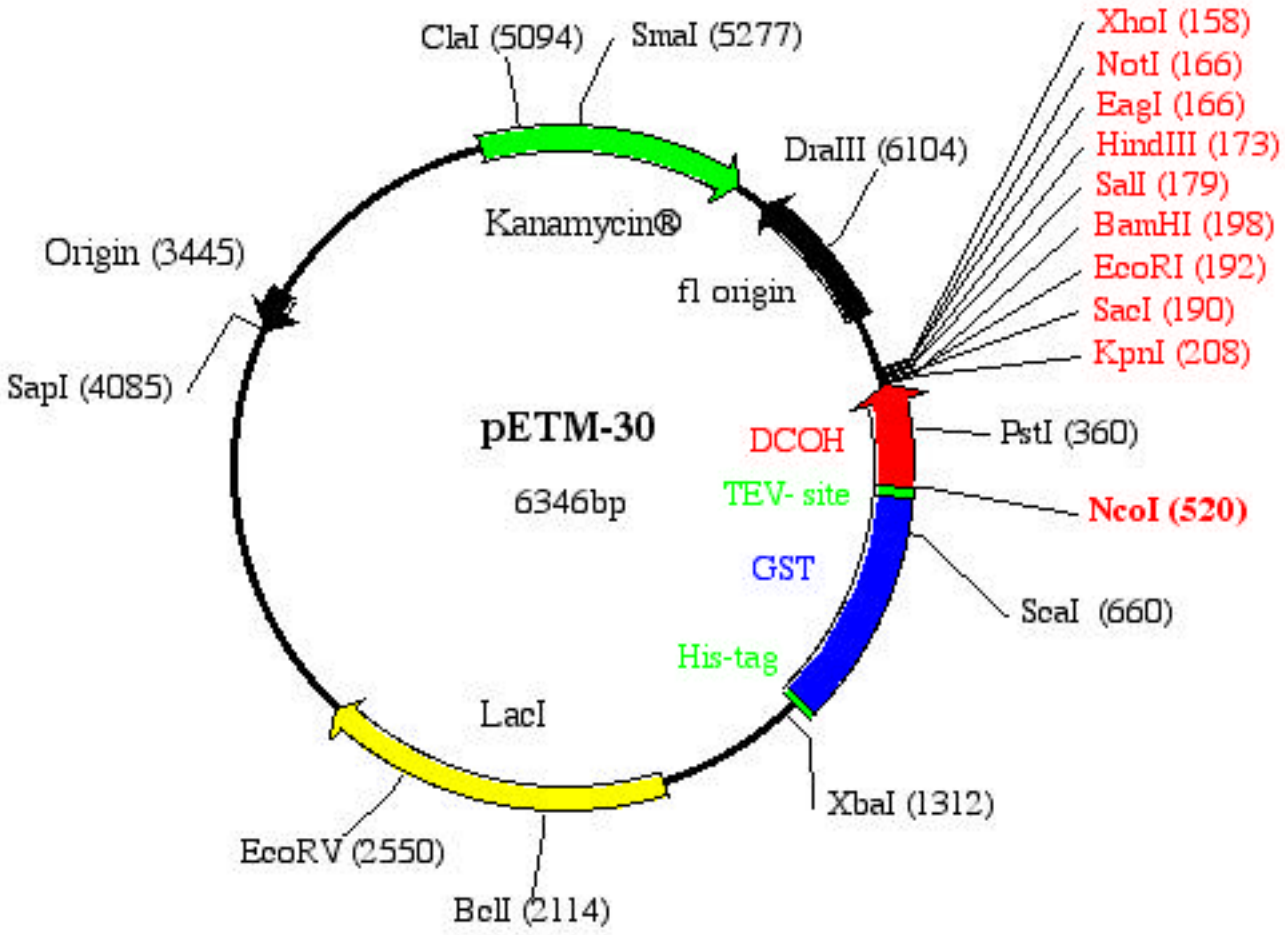
ClaI (5094)
SmaI (5277)
DraIII (6104)
XhoI (158)
NotI (166)
EagI (166)
HindIII (173)
SalI (179)
BamHI (198)
EcoRI (192)
SacI (190)
KpnI (208)
Kanamycin®
Origin (3445)
f1 origin
SapI (4085)
pETM-30
6346bp
DCOH
PstI (360)
TEV- site
NcoI (520)
GST
ScaI (660)
His-tag
LacI
XbaI (1312)
EcoRV (2550)
BclI (2114)

pETM-30

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     T7 promoter  -->          Lac operator     XbaI
CGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAATAATTT
GCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTATTAAA

                rbs                    His-tag
TGTTTAACTTTAAGAAGGAGATATACCATGAAACATCACCATCACCATCACAACACTAGTAGCAAT
ACAAATTGAAATTCTTCCTCTATATGGTACTTTGTAGTGGTAGTGGTAGTGTTGTGATCATCGTTA
                            METLysHisHisHisHisHisHisAsnThrSerSerAsn


TTCATGTCC..633bp..GTGCAACCCCCAACTAGTGGATCTGGTGGTGGTGGCGGATGGATGAGC
AAGTACAGG...GST...CACGTTGGGGGTTGATCACCTAGACCACCACCACCGCCTACCTACTCG
PheMetSer..211aa..ValGlnProProThrSerGlySerGlyGlyGlyGlyGluTrpMetSer

          TEV-site      NcoI
GAGAATCTTTATTTTCAG GGCGCCATGGCTGGCAAGCACACA..279bp..GCCGTGTCTATGACA
CTCTTAGAAATAAAAGTC CCGCGGTACCGACCGTTCGTGTGT...DCOH..CGGCACAGATACTGT
GluAsnLeuTyrPheGln|GlyAlaMETAlaGlyLysHisThr...93aa..AlaValSerMetThr

                                            NotI
         BamHI       SacI                   EagI
   KpnI       EcoRI          SalI HindIII          XhoI    C-His-tag
TAGGTACCGGATCCGAATTCGAGCTCCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCACCAC
ATCCATGGCCTAGGCTTAAGCTCGAGGCAGCTGTTCGAACGCCGGCGTGAGCTCGTGGTGGTGGTG
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Single Cutters Listed by Site Order

80	EspI	190	SstI	834	AsuII	3182	MstI
80	Bpu1102I	192	EcoRI	834	Csp45I	3946	Tth111I
158	XhoI	198	BamHI	1312	XbaI	4374	BsiI
160	SciI	204	Acc65I	1378	BglII	4749	Eco57I
166	NotI	204	Asp718I	1419	SgrAI	5060	NruI
166	XmaIII	208	KpnI	1575	SphI	5060	SpoI
166	Eco52I	313	Bsp1407I	1784	ApaBI	5094	ClaI
166	EagI	360	PstI	2100	MluI	5275	XmaI
173	HindIII	454	BspMI	2281	BstEII	5277	SmaI
179	SalI	520	NcoI	2311	ApaI	5403	XorII
188	EcoICRI	660	ScaI	2511	BssHII	5403	PvuI
188	Ecl136II	662	RleAI	2550	EcoRV	6104	DraIII
190	SacI	806	SwaI	2606	HpaI		

Non Cutting Enzymes

AatII	AflII	AgeI	AscI	AvrII	Bsu36I	CspI
CvnI	Eam1105I	Eco31I	Eco72I	FseI	I-PpoI	MfeI
Mlu113I	MstII	NdeI	NheI	PacI	PinAI	PmaCI
PmeI	SacII	SauI	SfiI	SnaBI	SplI	SrfI
SstII	StuI	SunI				