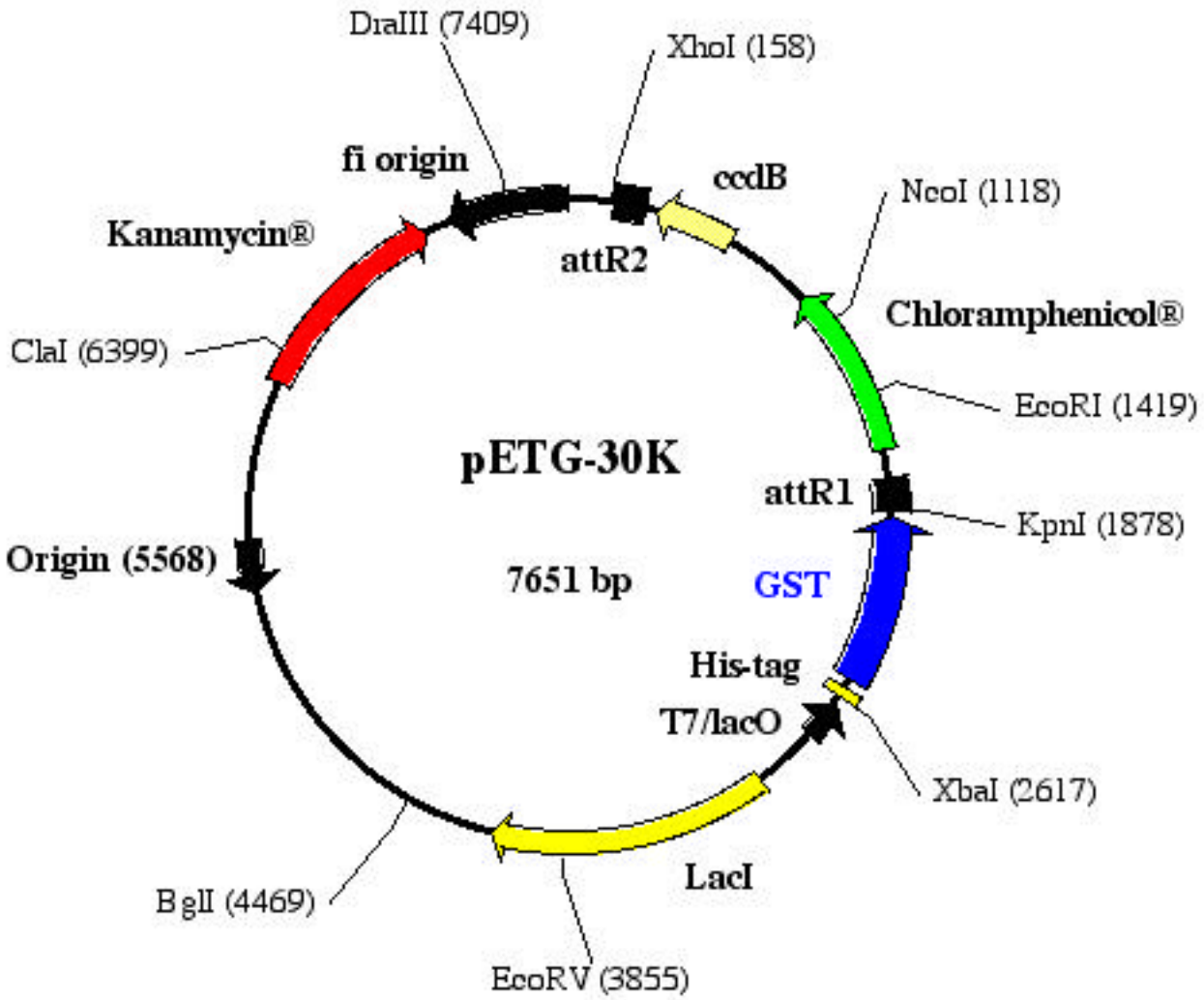
DraIII (7409)
XhoI (158)
fi origin
ccdB
NcoI (1118)
Kanamycin®
attR2
Chloramphenicol®
ClaI (6399)
EcoRI (1419)
pETG-30K
attR1
KpnI (1878)
Origin (5568)
7651 bp
GST
His-tag
T7/lacO
XbaI (2617)
LacI
BglI (4469)
EcoRV (3855)

pETG-30K

```
   T7 promoter  -->            lac operator     XbaI
AATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAATAA
TTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTATT

                    rbs                 His-tag
TTTTGTTTAACTTTAAGAAGGAGATATACCATGAAACATCACCATCACCATCACAACACT
AAAACAAATTGAAATTCTTCCTCTATATGGTACTTTGTAGTGGTAGTGGTAGTGTTGTGA
                                METLysHisHisHisHisHisHisAsnThr

                                                        KpnI
AGTAGCAATTCCATGTCC..627bp..GGTGGCGACCATCCTCCAAAATCGGATGGTACC
TCATCGTTAAGGTACAGG...GST...CCACCGCTGGTAGGAGGTTTTAGCCTACCATGG
SerSerAsnSerMetSer..209aa..GlyGlyAspHisProProLysSerAspGlyThr

   attR1  -->
ATGACAAGTTTGTACAAAAAAGCTGAACGAGAAACGTAAAATGATATAAATATCAATATA
TACTGTTCAAACATGTTTTTTCGACTTGCTCTTTGCATTTTACTATATTTATAGTTATAT
MetThrSerLeuTyrLysLysAlaGluArgGluThr***

TTAAATTAGATTTTGCATAAA......1574bp......TTGATATTTATATCATTTTAC
AATTTAATCTAAAACGTATTT...Cam®....ccdB...AACTATAAATATAGTAAAATG

                        <--  attR2            His-tag
GTTTCTCGTTCAGCTTTCTTGTACAAAGTGGTGACTCGAGCACCACCACCACCACCACTG
CAAAGAGCAAGTCGAAAGAACATGTTTCACCACTGAGCTCGTGGTGGTGGTGGTGGTGAC
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Single Cutters Listed by Site Order

80	EspI	1739	XmaIII	2549	SpeI	4487	MstI
80	Bpu1102I	1739	Eco52I	2617	XbaI	5251	Tth111I
158	XhoI	1739	EagI	2683	BglII	5679	BsiI
160	SciI	1739	NotI	2724	SgrAI	6054	Eco57I
291	SalI	1874	Acc65I	2880	SphI	6365	SpoI
301	PstI	1874	Asp718I	3089	ApaBI	6365	NruI
304	BspMI	1878	KpnI	3586	BstEII	6399	ClaI
410	Eco31I	1967	RleAI	3616	ApaI	6708	XorII
552	SrfI	2111	SwaI	3855	EcoRV	6708	PvuI
1118	NcoI	2139	AsuII	3911	HpaI	7409	DraIII
1419	EcoRI	2139	Csp45I	4469	BglI		

Non Cutting Enzymes

AatII	AflII	AgeI	AscI	AvrII	Bsu36I
CspI	CvnI	Eam1105I	Ecl136II	Eco72I	EcoICRI
FseI	HindIII	I-PpoI	MfeI	Mlu113I	MstII
NdeI	NheI	PacI	PinAI	PmaCI	PmeI
SacI	SacII	SauI	SfiI	SnaBI	SplI
SstI	SstII	StuI	SunI		