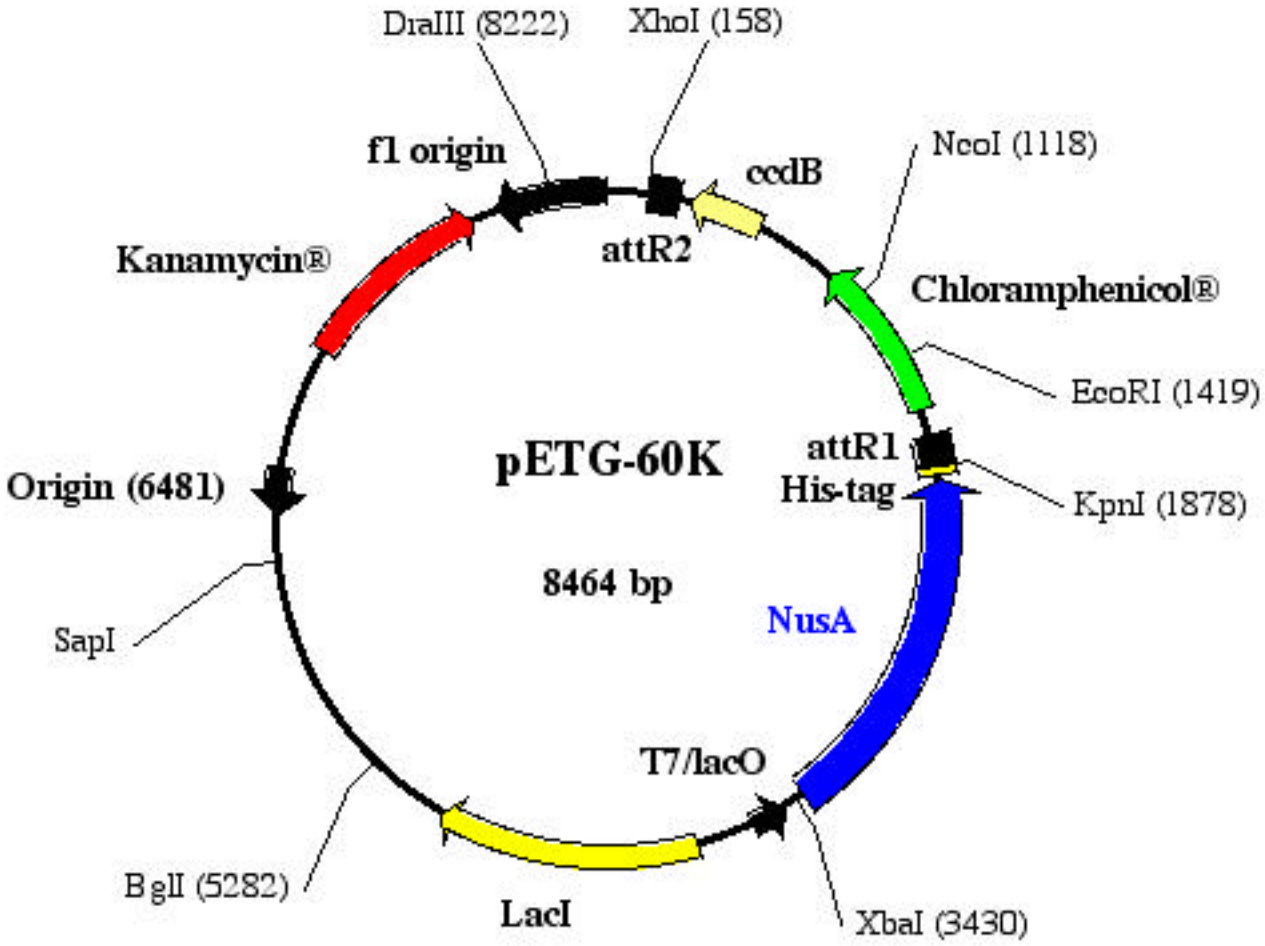
DraIII (8222)
XhoI (158)
f1 origin
ccdB
NcoI (1118)
Kanamycin®
attR2
Chloramphenicol®
EcoRI (1419)
pETG-60K
attR1
His-tag
Origin (6481)
KpnI (1878)
8464 bp
NusA
SapI
T7/lacO
BglI (5282)
LacI
XbaI (3430)

pETG-60K

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


                        RBS
TAATTTTGTTTAACTTTAAGAAGGAGATATACCATGAAAGAAATTTTGGCTGTAGTTGAA
ATTAAAACAAATTGAAATTCTTCCTCTATATGGTACTTTCTTTAAAACCGACATCAACTT
                                  MetLysGluIleLeuAlaValValGlu


                                            His-tag KpnI
GCCGTA.1443bp..GAAGCGACTAGTGGTTCTGGTCATCACCATCACCATCACGGTACC
CGGCAT..NusA...CTTCGCTGATCACCAAGACCAGTAGTGGTAGTGGTAGTGCCATGG
AlaVal..481aa..GluAlaThrSerGlySerGlyHisHisHisHisHisHisGlyThr


   attR1  -->
ATGACAAGTTTGTACAAAAAAGCTGAACGAGAAACGTAAAATGATATAAATATCAATATA
TACTGTTCAAACATGTTTTTTCGACTTGCTCTTTGCATTTTACTATATTTATAGTTATAT
MetThrSerLeuTyrLysLysAlaGluArgGluThr***


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


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

158	XhoI	1419	EcoRI	1907	SpeI	4399	BstEII
160	SciI	1739	EagI	2207	StuI	4429	ApaI
291	SalI	1739	NotI	2586	RleAI	4724	HpaI
301	PstI	1739	Eco52I	3267	AatII	5282	BglI
410	Eco31I	1739	XmaIII	3324	AsuII	5300	MstI
552	SrfI	1874	Asp718I	3324	Csp45I	6064	Tth111I
1006	ScaI	1874	Acc65I	3430	XbaI	6203	SapI
1118	NcoI	1878	KpnI	3693	SphI	8222	DraIII

Non Cutting Enzymes

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	SunI	SwaI			