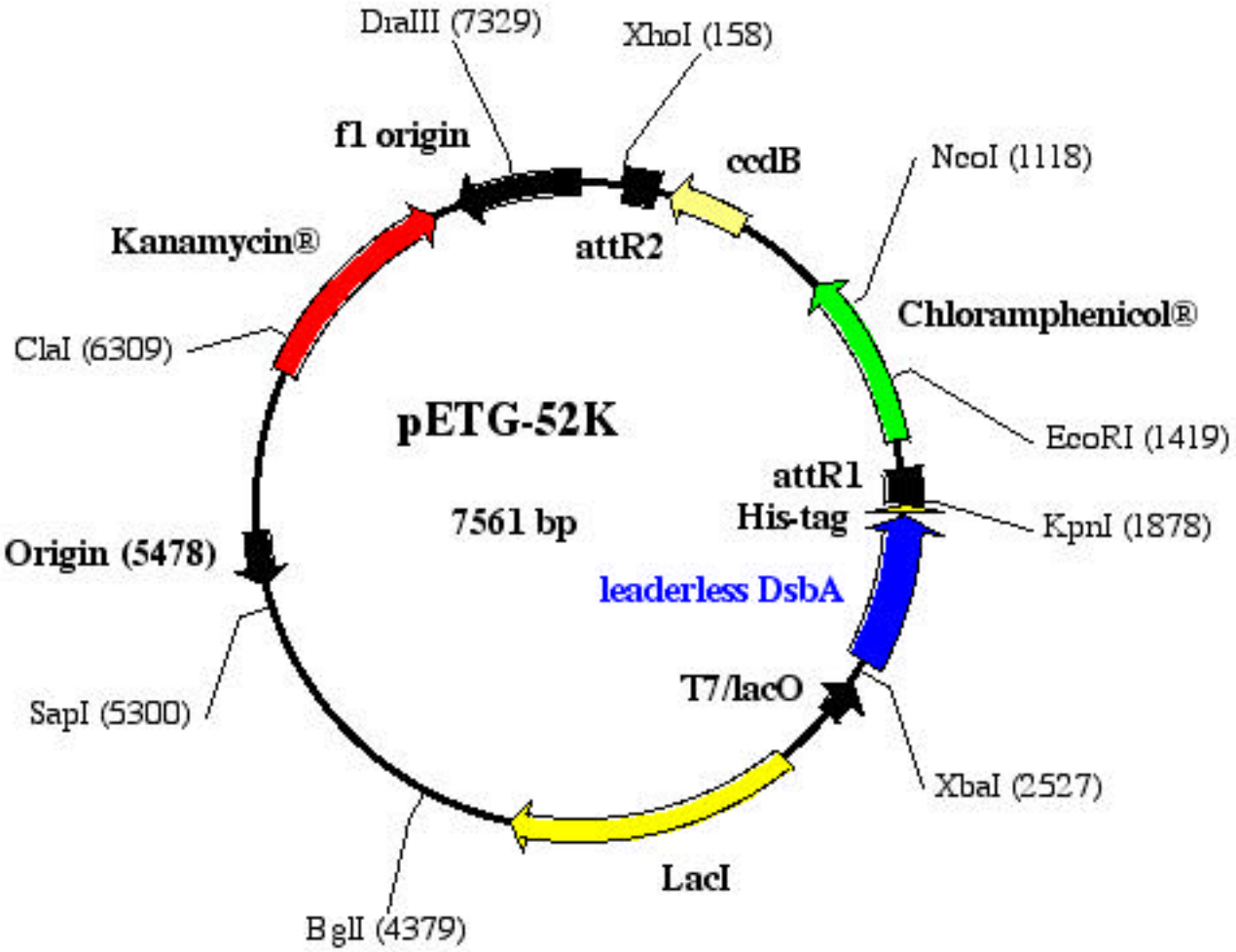
DraIII (7329)
XhoI (158)
f1 origin
ccdB
NcoI (1118)
Kanamycin®
attR2
Chloramphenicol®
ClaI (6309)
pETG-52K
EcoRI (1419)
attR1
His-tag
KpnI (1878)
7561 bp
Origin (5478)
leaderless DsbA
T7/lacO
SapI (5300)
XbaI (2527)
LacI
BglI (4379)

pETG-52K

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     T7 promoter  -->            Lac operator    XbaI
GAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAAT
CTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTA

                    rbs
AATTTTGTTTAACTTTAAGAAGGAGATATACATATGAAAGCGCAGTATGAAGATGGTAAA
TTAAAACAAATTGAAATTCTTCCTCTATATGTATACTTTCGCGTCATACTTCTACCATTT
                                   METLysAlaGlnTyrGluAspGlyLys

                                            His-tag KpnI
CAG....543bp...GGATCAACTAGTGGTTCTGGTCATCACCATCACCATCACGGTACC
GTC...LL-DsbA..CCTAGTTGATCACCAAGACCAGTAGTGGTAGTGGTAGTGAGGCGC
Val....181aa...GlySerThrSerGlySerGlyHisHisHisHisHisHisGlyThr

   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	1739	NotI	2439	PinAI	5300	SapI
160	SciI	1739	EagI	2527	XbaI	5589	BsiI
291	SalI	1874	Acc65I	2634	SgrAI	5964	Eco57I
410	Eco31I	1874	Asp718I	2790	SphI	6275	SpoI
552	SrfI	1878	KpnI	2999	ApaBI	6275	NruI
1006	ScaI	1907	SpeI	3329	BclI	6309	ClaI
1118	NcoI	1929	AflII	3526	ApaI	6618	XorII
1419	EcoRI	2045	MfeI	4379	BglI	6618	PvuI
1739	Eco52I	2428	AscI	4397	MstI	7319	DraIII
1739	XmaIII	2439	AgeI	5161	Tth111I		

Non Cutting Enzymes

AatII	AsuII	AvrII	Bsu36I	Csp45I	CspI
CvnI	Eam1105I	Ecl136II	Eco72I	EcoICRI	FseI
HindIII	I-PpoI	Mlu113I	MstII	NdeI	NheI
PacI	PmaCI	PmeI	RleAI	SacI	SacII
SauI	SfiI	SnaBI	SplI	SstI	SstII
StuI	SunI	SwaI			