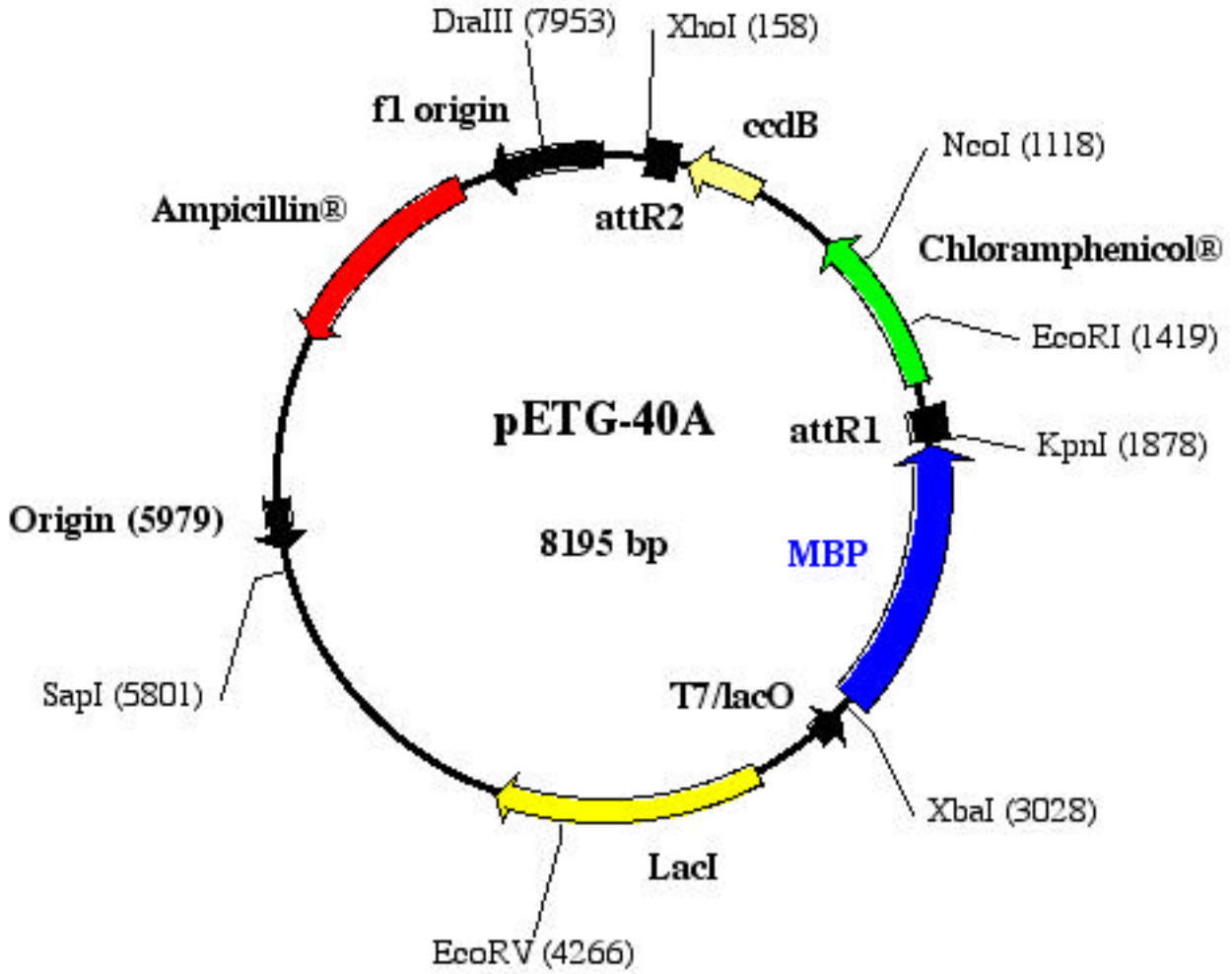
DraIII (7953)
XhoI (158)
f1 origin
ccdB
NcoI (1118)
Ampicillin®
attR2
Chloramphenicol®
EcoRI (1419)
pETG-40A
attR1
KpnI (1878)
Origin (5979)
8195 bp
MBP
SapI (5801)
T7/lacO
XbaI (3028)
LacI
EcoRV (4266)

pETG-40A

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

                        rbs
TAATTTTGTTTAACTTTAAGAAGGAGATATACCATCATGAAAATCGAAGAAGGTAAACTG
ATTAAAACAAATTGAAATTCTTCCTCTATATGGTAGTACTTTTAGCTTCTTCCATTTGAC
                                     METLysIleGluGluGlyLysLeu

                                                        KpnI
GTAATCTGGATTAACGGC...1044bp...AAAGACGCGCAGACTCCCGGTAGCGGTACC
CATTAGACCTAATTGCCG.....MBP....TTTCTGCGCGTCTGAGGGCCATCGCCATGG
ValIleTrpIleAsnGly....348aa...LysAspAlaGlnThrProGlySerGlyThr

   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

158	XhoI	1739	Eco52I	2694	SplI	4027	ApaI
160	SciI	1739	EagI	2831	RleAI	4266	EcoRV
291	SalI	1739	NotI	3028	XbaI	4322	HpaI
550	XmaI	1739	XmaIII	3135	SgrAI	5662	Tth111I
552	SrfI	1874	Asp718I	3291	SphI	5801	SapI
552	SmaI	1874	Acc65I	3351	EcoNI	6810	Eam1105I
1118	NcoI	1878	KpnI	3997	BstEII	7953	DraIII
1419	EcoRI	2694	SunI				

Non Cutting Enzymes

AatII	AflII	AgeI	AscI	AsuII	AvrII
Bsu36I	ClaI	Csp45I	CspI	CvnI	Ecl136II
Eco72I	EcoICRI	FseI	HindIII	I-PpoI	MfeI
Mlu113I	MstII	NdeI	NheI	NruI	NsiI
PacI	PinAI	PmaCI	PmeI	SacI	SacII
SauI	SfiI	SnaBI	SpeI	SpoI	SstI
SstII	StuI	SwaI			