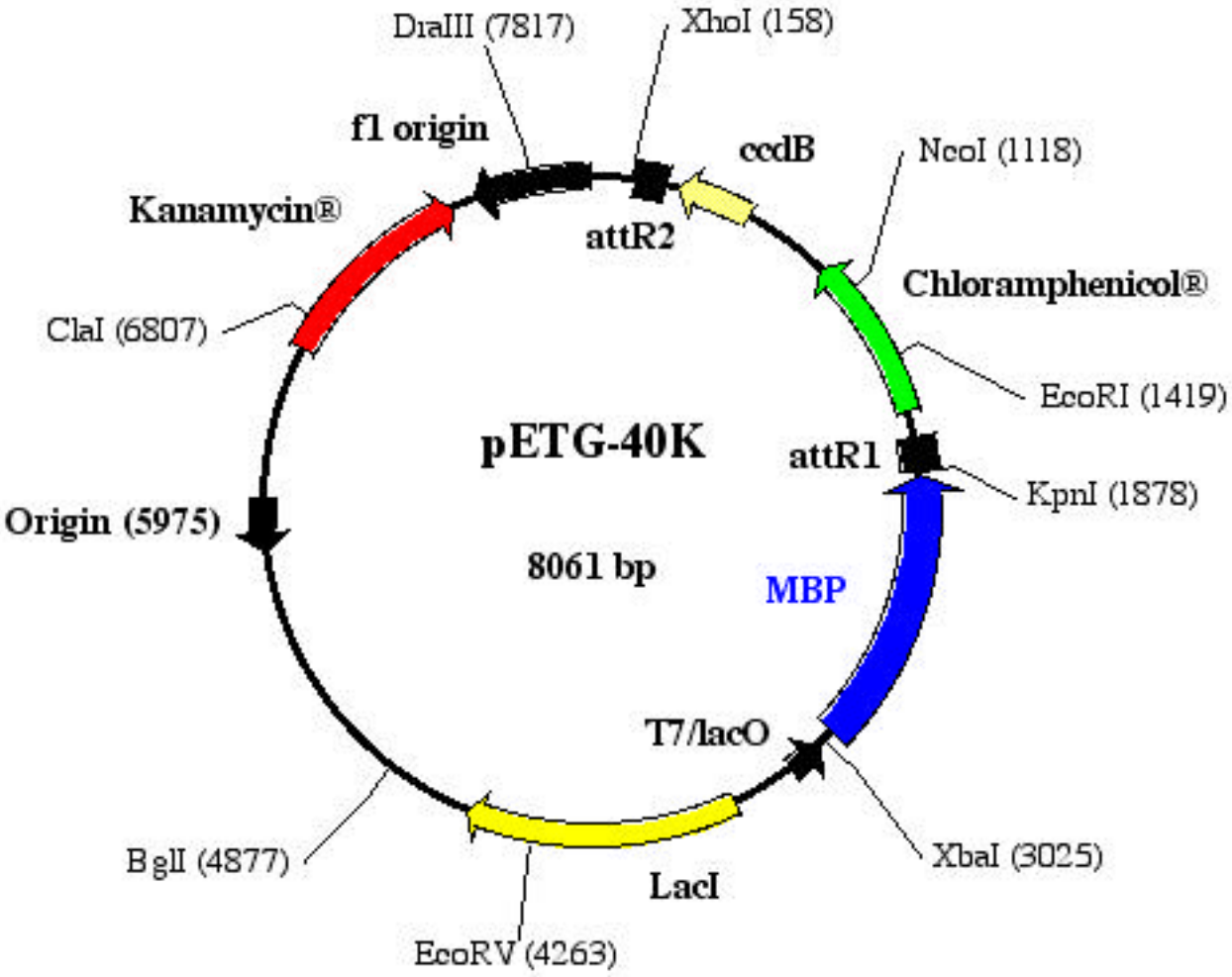
DraIII (7817)
XhoI (158)
f1 origin
ccdB
NcoI (1118)
Kanamycin®
attR2
Chloramphenicol®
ClaI (6807)
EcoRI (1419)
pETG-40K
attR1
KpnI (1878)
Origin (5975)
8061 bp
MBP
T7/lacO
BglI (4877)
XbaI (3025)
LacI
EcoRV (4263)

# pETG-40K

```
        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
```

Single Cutters Listed by Site Order

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 158 | XhoI | 1739 | EagI | 3025 | XbaI | 4895 | MstI |
| 160 | SciI | 1739 | NotI | 3132 | SgrAI | 5659 | Tth111I |
| 291 | SalI | 1739 | XmaIII | 3288 | SphI | 5798 | SapI |
| 301 | PstI | 1874 | Asp718I | 3994 | BstEII | 6087 | BsiI |
| 552 | SrfI | 1874 | Acc65I | 4024 | ApaI | 6773 | SpoI |
| 1006 | ScaI | 1878 | KpnI | 4263 | EcoRV | 6773 | NruI |
| 1118 | NcoI | 2694 | SunI | 4319 | HpaI | 6807 | ClaI |
| 1419 | EcoRI | 2694 | SplI | 4877 | BglI | 7817 | DraIII |
| 1739 | Eco52I | 2831 | RleAI | | | | |

Non Cutting Enzymes

| | | | | | |
|---|---|---|---|---|---|
| AatII | AflII | AgeI | AscI | AsuII | AvrII |
| Bsu36I | Csp45I | CspI | CvnI | Eam1105I | Ecl136II |
| Eco72I | EcoICRI | FseI | HindIII | I-PpoI | MfeI |
| Mlu113I | MstII | NdeI | NheI | PacI | PinAI |
| PmaCI | PmeI | SacI | SacII | SauI | SfiI |
| SnaBI | SpeI | SstI | SstII | StuI | SwaI |