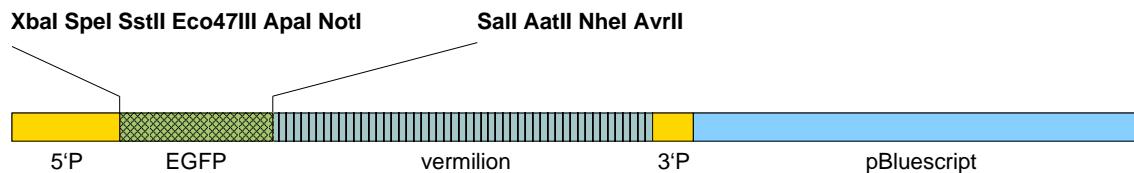


pP{GS[v⁺, EGFP]}

6298 bp



5' multicloning site:

The diagram illustrates the pET28b(+) vector backbone with the inserted EGFP gene. Key features include:

- XbaI**, **SpeI**, **SacII**, **ApaI**, and **NotI** restriction sites.
- Eco47III** site.
- start EGFP** indicates the transcription start site for the EGFP gene.
- Sequence 540: aatcttagaactagtccgcggagcgctgggccccatagcggccgc**atggtagacaaggcgaa** 599
- Restriction sites are marked with a horizontal line and an asterisk (*).
- Start codon: atggtagacaaggcgaa
- Stop codon: ggaa
- Frameshift: indicated by a break in the sequence between the start codon and the stop codon.

3' multicloning site:

1290 **end EGFP** **SrfI** **Sall** **AatII** **NheI** **AvrII** **HindIII** 1349
 gctgtacaaggccccgggcaagtgcacgcacgtcgctagcatacccttaggaagcttnattat
 ^ * ^ * ^ * ^ * ^ * ^ * ^ * ^ *
 L Y K A R A S R R R R *

unique sites are indicated in **bold**

Location of features:

- | | |
|-------------|-----------------------|
| 1 – 541 | 5' P-repeat |
| 542 – 574 | 5' multicloning site |
| 575 – 1315 | EGFP |
| 1316 – 1336 | 3' multicloning site |
| 1337 – 3230 | vermillion marker gen |
| 3231 – 3435 | 3' P-repeat |
| 3436 – 6298 | pBluescriptII KS+ |