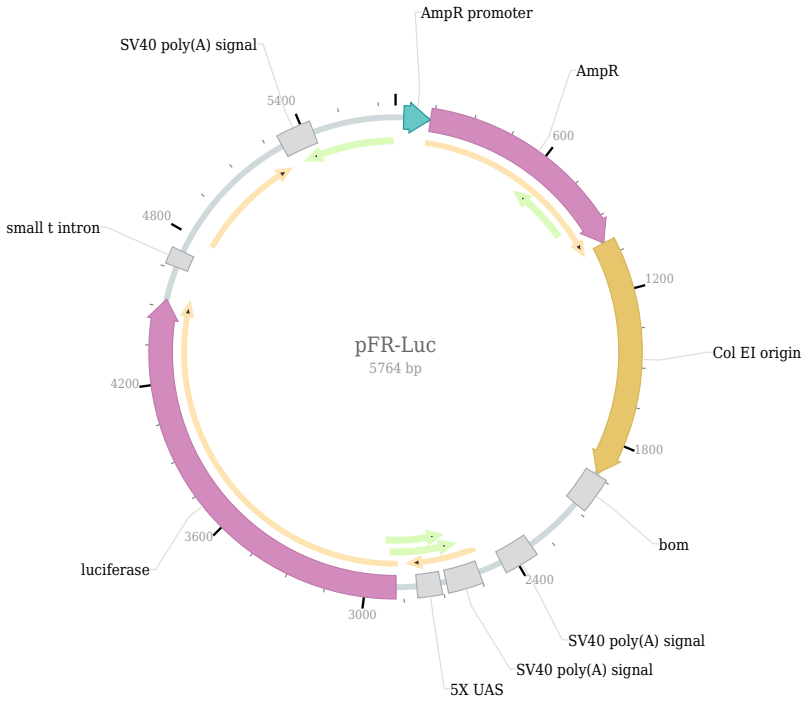
# pFR-Luc

| | |
|---|---|
| **Vector ID** | V018103 |
| **Antibiotic Resistance** | Ampicillin |
| **Length** | 5764 bp |
| **Vector Type** | Cloning vector |

## Product Information

| | |
|---|---|
| **Source/Author** | Zheng C.-F |
| **Growth Strain(s)** | Stbl3 |
| **Comment** | pFR-Luc is a mammalian reporter plasmid designed to study transcriptional regulation. It contains the firefly luciferase gene under the control of a minimal promoter with multiple repeats of specific response elements (e.g., Gal4 binding sites), allowing detection of transcription factor activity or promoter activation. The plasmid typically includes an antibiotic resistance marker (e.g., ampicillin) for selection and is widely used in signal transduction assays, promoter analysis, and high-throughput screening of regulatory elements. |

## Vector Map




## Plasmid Resuspension Protocol

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.