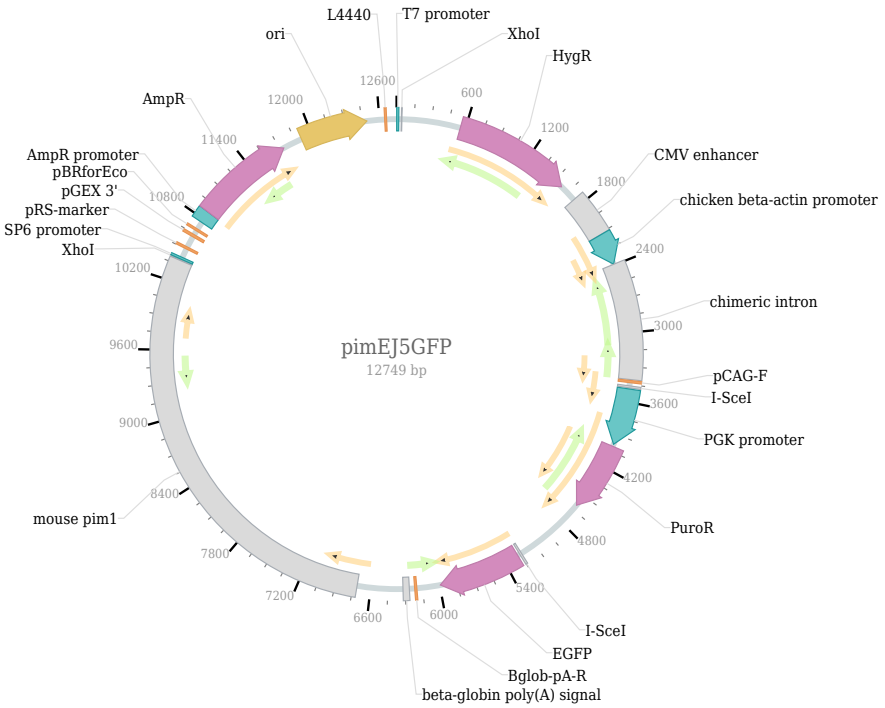
pimEJ5GFP

Vector ID	V001174
Antibiotic Resistance	Ampicillin
Length	12749 bp
Vector Type	Mammalian Expression

Product Information

Replication Origin	ori
Promoter	CAG
5' Primer	ttcctacagctcctgggcaacg
3' Primer	ttttggcagagggaaaaaga
Growth Strain(s)	DH5a
Growth Temperature	37℃
Comment	pimEJ5-GFP is an I-SceI-dependent chromosomal total-NHEJ reporter vector for mammalian double-strand break repair assays. Two tandem I-SceI sites flank a PGK-puro cassette; distal end joining deletes the puromycin fragment and restores eGFP expression. It carries a promoterless hygromycin resistance gene and a full-length mouse Pim1 homologous arm for single-crossover targeted integration into the murine Pim1 locus. Linearize with XhoI before transfection for stable cell line generation in mouse ES or human cells.

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 ℃.