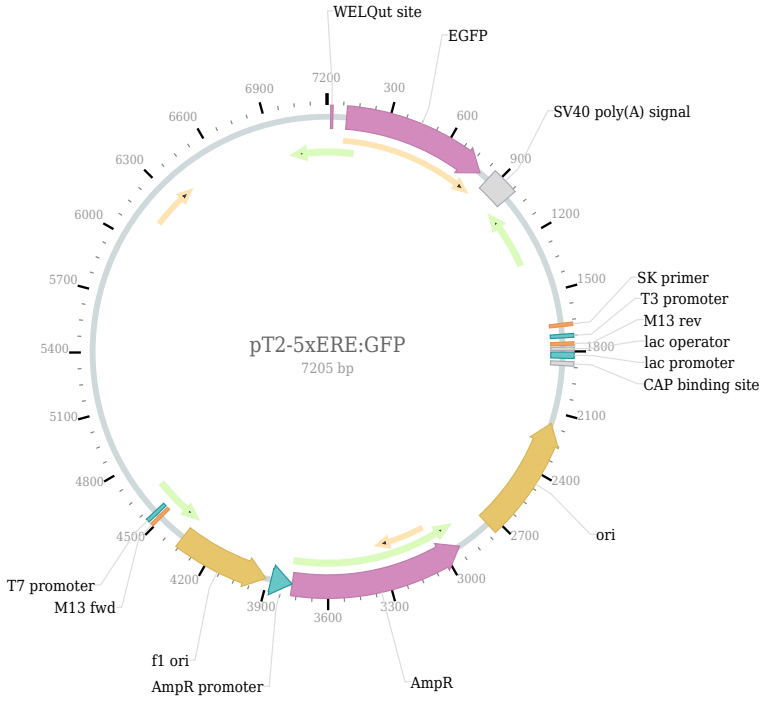
pT2-5xERE:GFP

Vector ID	V017023
Antibiotic Resistance	Ampicillin
Length	7205 bp
Vector Type	Transcription factor reporter
Host	Fish

Product Information

Replication Origin	ori
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pT2-5xERE:GFP is a Tol2 transposon-based zebrafish reporter plasmid built on the pT2cfosEGFP backbone. It carries five tandem estrogen response elements (5xERE), a mouse c-fos minimal promoter and GFP to track estrogen receptor (ER) transcriptional activation. Co-injected with Tol2 transposase mRNA into one-cell zebrafish embryos, it generates stable transgenic lines with tissue-specific GFP fluorescence upon ER ligand exposure. This vector enables in vivo visualization and quantification of natural, synthetic and environmental estrogenic compounds in larval and adult zebrafish.

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 ℃.