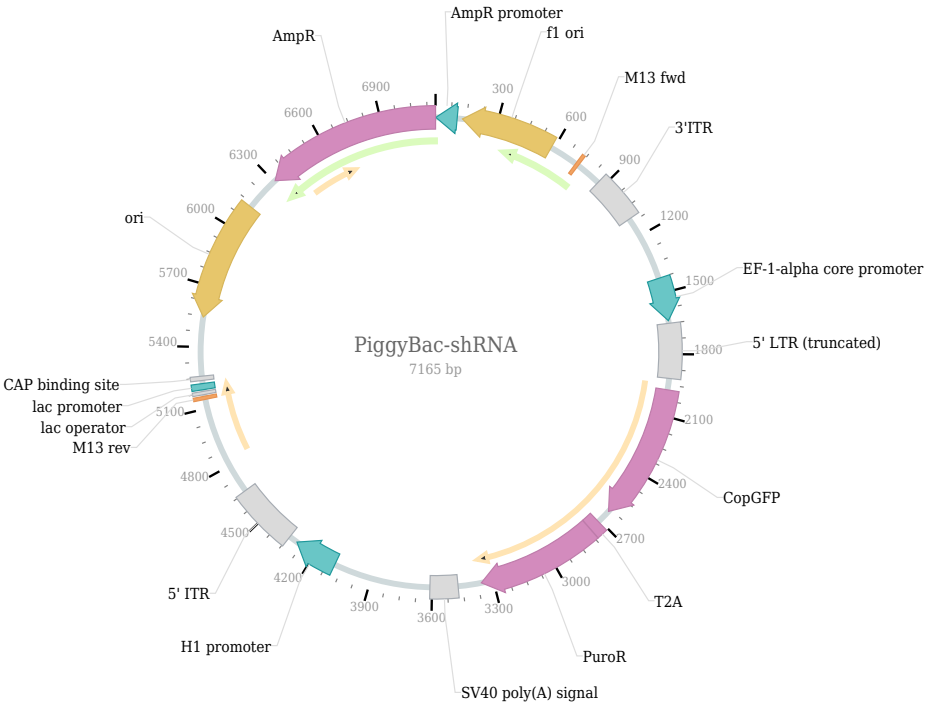
PiggyBac-shRNA

Vector ID	V017722
Antibiotic Resistance	Ampicillin
Length	7165 bp
Vector Type	RNAi, Transposition
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Puro
Promoter	EF1a
3' Primer	EF1a-R
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	PiggyBac-shRNA is a transposon-based mammalian vector for stable, long-term gene knockdown. An shRNA cassette driven by a U6 or H1 promoter is flanked by piggyBac inverted terminal repeats; co-delivery of transposase excises the cassette and integrates it at genomic TTAA sites by a cut-and-paste mechanism. Because genomic integration is permanent, knockdown is heritable and does not require viral handling; re-expression of transposase permits footprint-free excision when transient silencing or clone rescue is needed.

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 ℃.