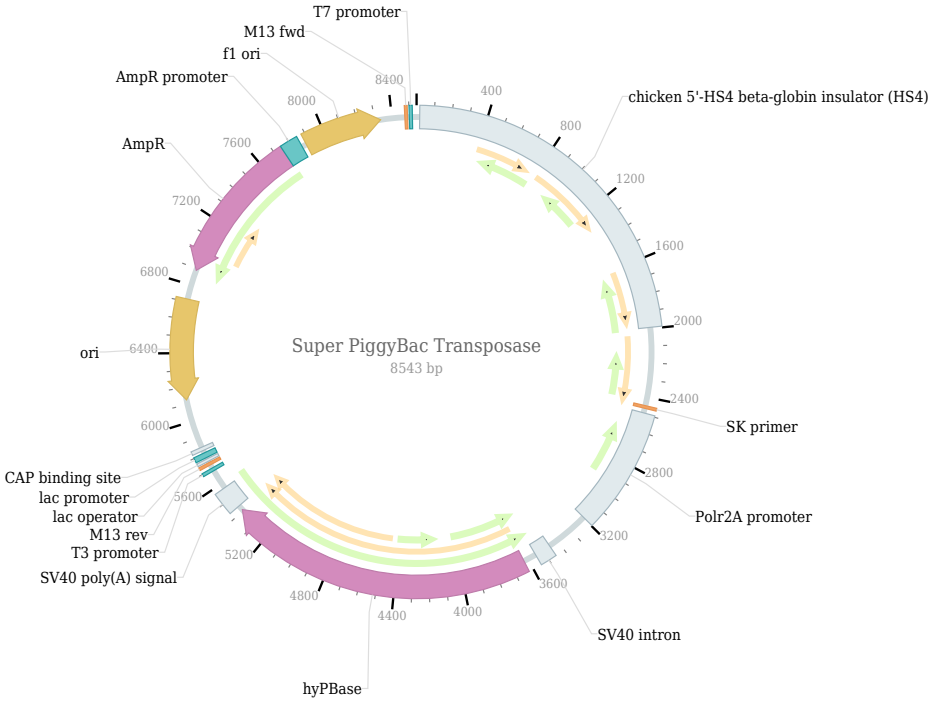
Super PiggyBac Transposase

Vector ID	V012800
Antibiotic Resistance	Ampicillin
Length	8543 bp
Vector Type	PiggyBac

Product Information

Replication Origin	ori
Source/Author	SBI
Promoter	rPolr2A
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	The Super PiggyBac transposase expression vector features a RNA polymerase II large subunit (Polr2A) promoter to provide robust expression of the transposase. The PiggyBac transposase coding sequence has been optimized for high expression, stability and integration activity in mammalian cells. The PiggyBac (PB) transposon is a mobile genetic element that efficiently transposes between vectors andchromosomes via a "cut and paste" mechanism. During transposition, the PB transposase recognizes transposonspecific inverted terminal repeat sequences (ITRs) located on both ends of the transposon vector and efficiently moves the contents from the original sites and efficiently integrates them into TTAA chromosomal sites. The powerful activity of the piggyBac transposon system enables genes of interest between the two ITRs in the PB vector to be easily mobilized into target genomes. The Super PiggyBac transposase expression vector features a 5’ HS4 insulator to support robust transcription from the rPolr2A promoter. The sequencing results indicated the XhoI site was destroyed by the insertion GTCGACGCCGCT.

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 ℃.