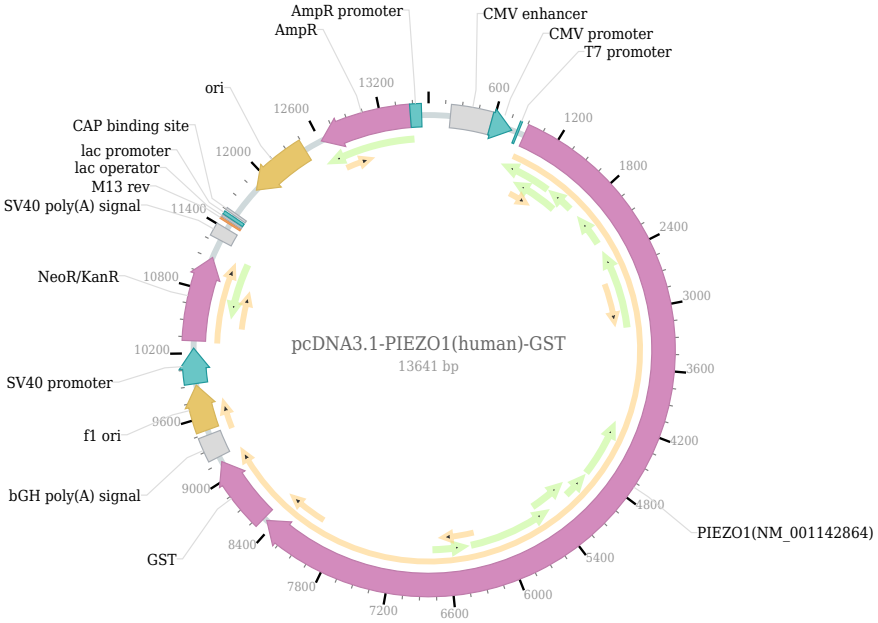
pcDNA3.1-PIEZO1(human)-GST

Vector ID	V045378
Accession ID	NM_001142864.4
Antibiotic Resistance	Ampicillin
Length	13641 bp
Vector Type	Protein expression
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Neo/G418
Copy Number	High
Promoter	CMV
5' Primer	CMV-F
Fusion Tag	GST
Growth Strain(s)	DH10B
Growth Temperature	37℃
Expression Method	Transient
Comment	pcDNA3.1-PIEZO1(human)-GST drives expression of human PIEZO1, a large mechanosensitive non-selective cation channel that senses mechanical forces (such as membrane tension and shear stress) and converts them into biological signals for vascular development and red blood cell volume regulation, with a GST tag. This vector features a C-terminal GST fusion to enhance protein solubility and enable efficient glutathione affinity purification, and includes CMV and T7 promoters for versatile expression applications.

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 ℃.