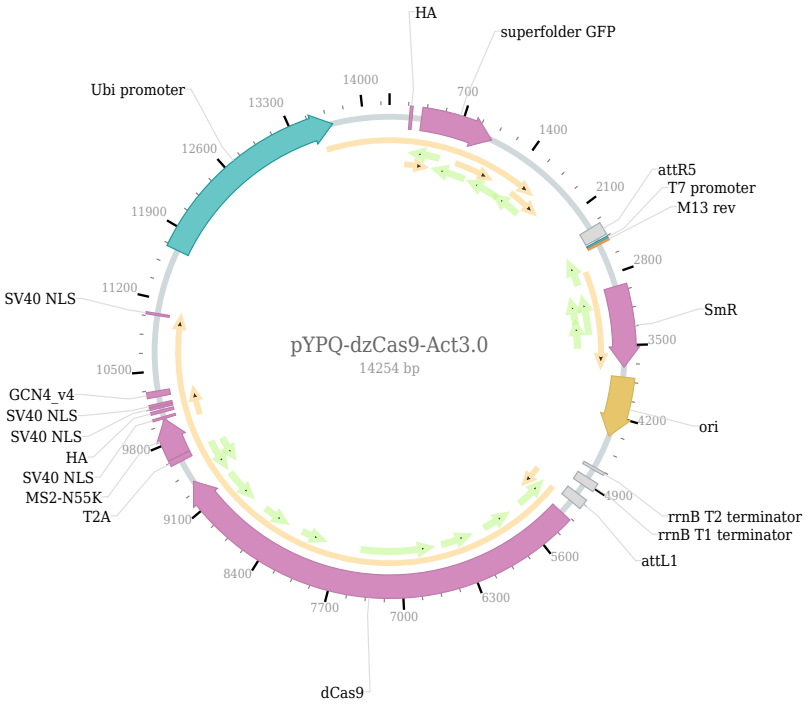
pYPQ-dzCas9-Act3.0

载体编号 Vector ID	V017159
抗性 Antibiotic Resistance	Spectinomycin
长度 Length	14254 bp
载体类型 Vector Type	Gene knockout
宿主 Host	Plants

产品信息

复制子 Replication Origin	ori
启动子 Promoter	Ubi
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	pYPQ-dzCas9-Act3.0 is a core entry vector for the plant CRISPR–Act3.0 transcriptional activation system. It carries maize codon-optimized dzCas9-VP64, paired with MS2-SunTag and scFv-sfGFP-2xTAD activator modules for robust gene upregulation. Unlike dpcoCas9 versions, this plasmid avoids DNA rearrangement in Agrobacterium tumefaciens during plant transformation. It delivers activation potency comparable to dpcoCas9-Act3.0 and functions well in rice, Arabidopsis and tomato. It is compatible with tRNA-gR2.0 multiplex sgRNA cassettes for simultaneous multi-gene activation in metabolic engineering.

质粒图谱



复溶方法

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 ℃.