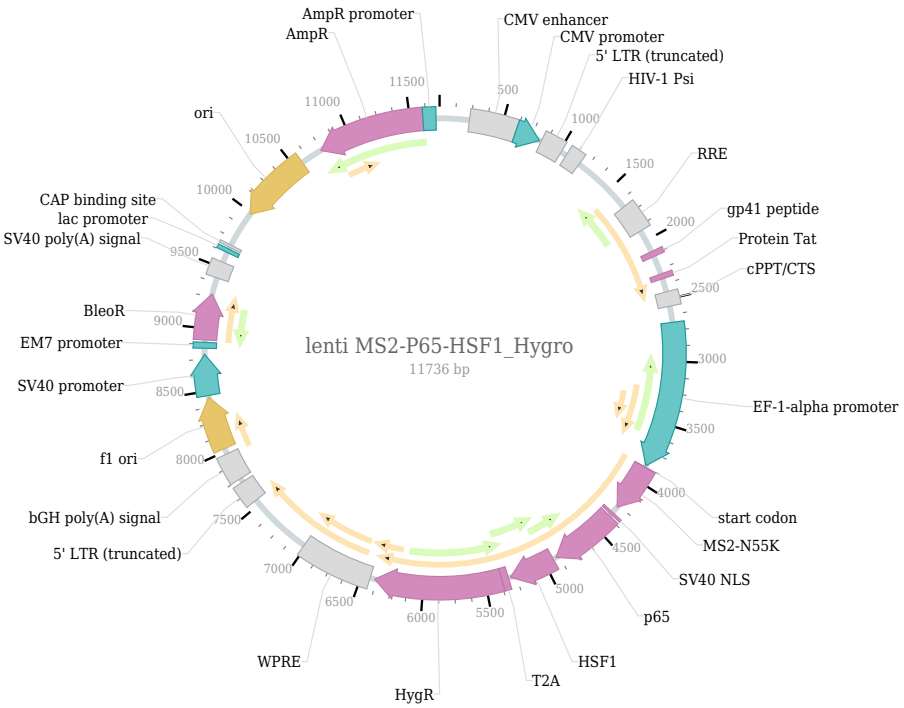
lenti MS2-P65-HSF1_Hygro

载体编号 Vector ID	V012333
抗性 Antibiotic Resistance	Ampicillin
长度 Length	11736 bp
载体类型 Vector Type	CRISPR Plasmids

产品信息

复制子 Replication Origin	ori
来源 Source/Author	Konermann S, Brigham MD, Trevino AE, Joung J, Abudayyeh OO, Barcena
拷贝数 Copy Number	High copy number
启动子 Promoter	EF-1α
培养菌株 Growth Strain(s)	stbl3
备注 Comment	This lentiviral plasmid is one core component of the SAM CRISPRa activation system developed by Feng Zhang's lab. It uses EF1α promoter to express MS2-p65-HSF1 fusion protein linked to HygroR via P2A self-cleaving peptide for hygromycin cell selection. MS2 domain binds MS2 RNA aptamers on sgRNA 2.0 to recruit dual co-activators p65 and HSF1 for synergistic gene upregulation together with dCas9-VP64. It is widely applied for single-gene activation and genome-wide gain-of-function lentiviral screening in mammalian cells.

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 ℃.