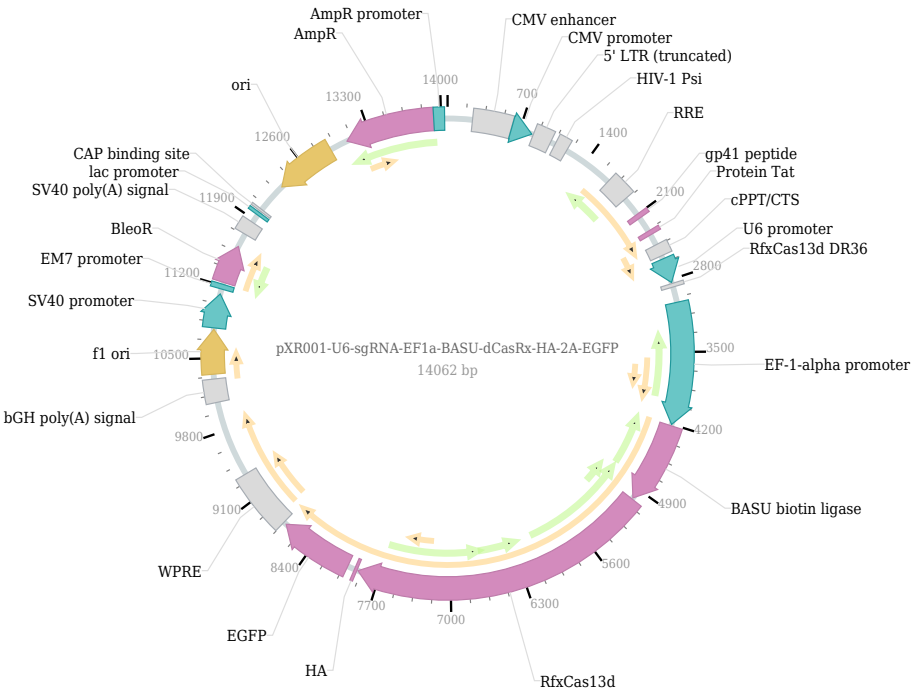
pXR001-U6-sgRNA-EF1a-BASU-dCasRx-HA-2A-EGFP

Vector ID	V014536
Antibiotic Resistance	Ampicillin
Length	14062 bp
Vector Type	Gene knockout
Host	Mammalian cells

Product Information

Replication Origin	ori
Promoter	EF-1α
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	pXR001-U6-sgRNA-EF1a-BASU-dCasRx-HA-2A-EGFP is a CARPID vector for CRISPR-assisted detection of RNA-protein interactions (Yi et al. 2020): EF1a promoter expresses BASU biotin ligase fused to nuclease-dead Cas13d (dCasRx) with an HA tag and 2A-linked EGFP, plus a U6-sgRNA cassette. Guides proximity biotinylation of proteins bound to target RNAs for identification.

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 ℃.