

Sanger Arrayed Lentiviral CRISPR Libraries



The Next Generation of Screening Tools has Arrived

Two leaders in genome editing, Sigma-Aldrich® and the Wellcome Trust Sanger Institute, have joined forces to make the first ever arrayed lentiviral CRISPR knockout libraries. Based upon validated techniques published in the literature, the Sanger CRISPR libraries will put your lab at the forefront of the race to make the next big discovery.

Content

- 2 knockout clones for every human and mouse protein-coding gene
- Nearly 40,000 sequence confirmed clones per species library

gRNA Design

- Sanger clones maximize gene knockout by targeting the first half of the protein coding region while avoiding the first 90 bp
- Genomic target sequences are highly conserved, avoiding SNPs, to ensure representation in multiple cell lines
- Stringent design rules reduce or eliminate the potential for off-target effects

Vector

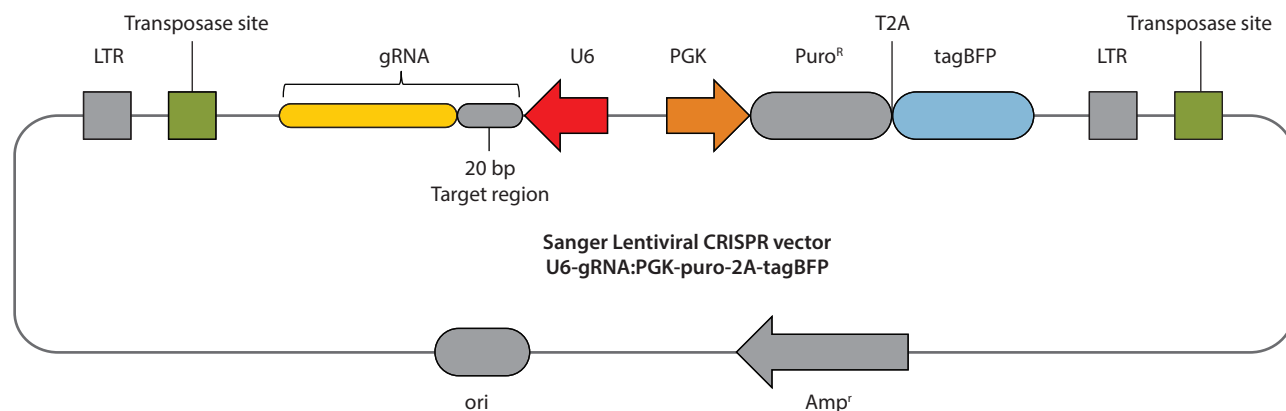
- Simplify the workflow with puromycin selection
- Illuminate CRISPR-expressing cells with BFP
- Flip the expression components into and out of the genome using transposase

Additional Features

- Better, not bigger: Two optimized clones per gene reduce the time, cost, and scale of screening experiments
- Ready-to-screen: Clones are arrayed in a robotics-friendly 96-well format for high throughput screening
- Collaborative: Real-time, library validation continues through the Sigma-Aldrich and Sanger Institute partnership

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