Easily transition from pooled to arrayed screening for target validation

Pooled lentiviral screen

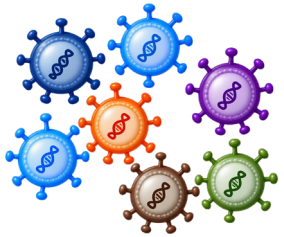
High-coverage library delivered by lentivirus

Diverse CRISPR Library
Many genes x many gRNAs

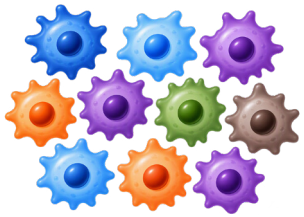
5′ — 3′
5′ — 3′
5′ — 3′
5′ — 3′
5′ — 3′

Package

Lentiviral particles



Target cell population



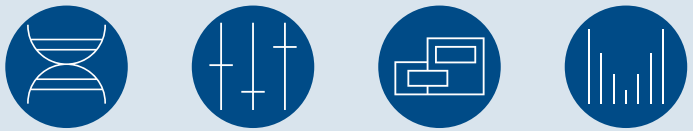
Pooled transduced cell population



Sequence & quantify

Sequencing readout

Genomic DNA | Amplify | NGS | Guide counts



Prioritized targets

Select top candidate genes for validation

Prioritized gene targets

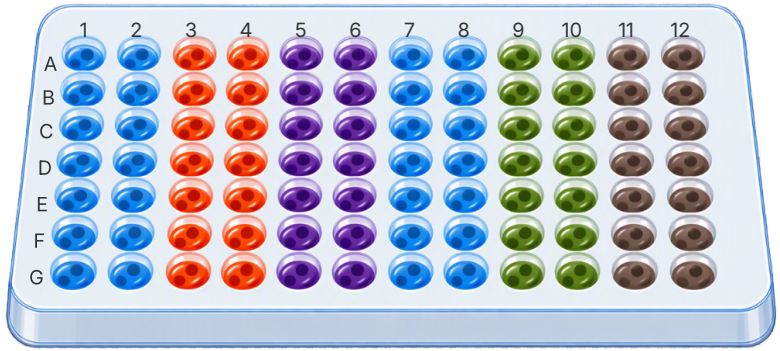
- Gene A
- Gene B
- Gene C
- Gene D
- Gene E
- Gene F

Arrayed RNP validation screen

One gene target per well using RNP delivery

Gene A | Gene B | Gene C | Gene D | Gene E | Gene F





Phenotypic outcomes

Proliferation changes	Increased cell death	Morphology changes	Behavioral changes	Other changes

Learn more about Alt-R CRISPR-Cas9 Libraries
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