

CRISPR Whole Genome Screening Core Services

SGRNA Transfection Conditions

Two-hundred and forty conditions are tested to define optimal transfection format, using eight different transfection reagents and varied amounts of a suitable control sgRNA.

Assay Optimization for HTS

Cell density, main readout, and automation conditions are established for high throughput screening.

Whole Genome CRISPR Screening

High throughput screening of 384-well microplates (68 plates encompassing a complete sgRNA library), including automation, data collection and analysis, is performed.

Validation of CRISPR HTS

Genomic deletions are confirmed using PCR and sequencing of PCR products of selected hits.

Services

Service	Cost per Unit
Identification of conditions for transfection of sgRNAs	\$1,500/sample
Optimization of assay conditions for high throughput screening	\$1,500/sample
High throughput screening (HTS) of whole genome sgRNA CRISPR library (human or mouse)	\$6,000/each
Validation of sgRNA-mediated gene knockout of selected hits from HTS	\$1,500/panel