



CELLECTA

For Pooled CRISPR, RNAi, and Barcode Libraries

- NGS analysis kits are available for all Cellecta libraries, GeCKO, Brunello, and other common libraries
- Kits include all primers and PCR reagents needed to prepare 24 samples for multiple runs on Illumina NextSeq or HiSeq NGS platforms

Screens using complex pooled CRISPR and RNAi libraries make use of next-generation sequencing read counts to assess the relative representation of each library element in the genomic DNA of each screened cell or tissue sample. Preparation of these short specific library elements—shRNA, sgRNA, or barcodes—for sequencing requires targeted PCR amplification with specially designed primers followed by sequencing with custom primers.

Multiplex analysis of multiple samples requires more than 15 primers customized based on the design of each particular library. For most of the standard pooled lentiviral libraries, Cellecta offers complete kits containing all the primers and PCR reagents required to prepare genomic DNA isolated from your library screening samples for sequencing.

NGS Analysis Kits Available for Various Libraries

Several versions of Cellecta NGS Prep Kits are available to meet your needs. Each contains the appropriate primers for particular library/vector combinations. Simply select the Prep Kit for your screen and order

Ordering information

Catalog # Product Description

LNGS-101	NGS Prep Kit for DECIPHER (shRNA barcoded libraries in pRSI12)
LNGS-102	NGS Prep Kit for HGW shRNA (barcoded libraries in pRSI16/pRSI17)
LNGS-120	NGS Prep Kit for KOHGW CRISPR sgRNA libraries in pRSG16/pRSG17
LNGS-200	NGS Prep Kit for CellTracker™ Barcode Libraries (pRSI16/pRSI17)
LNGS-900	NGS Prep Kit for LentiGuide sgRNA Libraries (e.g., GeCKO, Brunello, Brie)
LNGS-905	NGS Prep Kit for LentiCRISPRv2 sgRNA Libraries (e.g., GeCKO single vector, Brunello Kinome)

For more information, or to order, email us at sales@cellecta.com.

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Complete Library Sequencing Service

In addition to offering NGS Prep kits, Cellecta continues to provide next-generation sequencing and analysis services for researchers running their own screens with our libraries, or with GeCKO, Brunello or other libraries cloned into the LentiCRISPR or Lenti-Guide vectors.

Simply ship us the isolated genomic DNA, or the harvested cells or tissue from each time point or treatment condition. We will extract DNA, amplify, sequence, and enumerate guide, shRNA, or barcode counts, so you can focus on your research.

Driver-Map™ RNA Expression Profiling System

Combine the power of multiplex RT-PCR with quantitative NGS to provide a comprehensive and robust alternative to RNA-Seq. This technology is accessible as both a complete service and off-the-shelf kit. Learn more at www.driver-map.com