Sigma-Aldrich®
Lab & Production Materials

MERCK

Genomic DNA Prep and Deconvolution of CRISPR/Cas9, shRNA, and ORF Pools

Deconvolution Sample Submission Worksheet

Please use the table on reverse side to guide your deconvolution discussions with your representative.

Customer Name: _____
Account Name: _____
Account Address: _____

Customer Phone: _____
Customer Email: _____

Submission Guidelines

We accept projects for research applications only. We do not accept human subject identifiable information associated with any samples. We are accepting shRNA, ORF, and CRISPR based pools at this time. We are not liable for samples. All samples become our property upon receipt. We highly recommend archiving backup samples.

Sample Submission Criteria

1. Cells
   - For each sample, we recommend a minimum of 500 cells per clone for gRNA and ORF libraries and 1000 cells per clone for shRNA libraries sent in a secured tube.
2. Genomic DNA (gDNA)
   - For each pooled genomic DNA sample we require at least 1.5 ng per clone.

     Formula:
     total gDNA = #clones x 1.5 ng/#clones
     e.g. for a pool with 10,000 clones, the minimum amount of gDNA is 10,000 x 1.5 ng = 15 µg
3. Clearly label sample tubes with unique sample names matching those provided on this sample submission form. Identify any biological replicates.
4. **U.S. shipments:** Please pack samples in an appropriate container with enough dry ice for a 2-day shipment.

   International Shipments: Please send a pre-shipment alert to ensure customs clearance. This can be accomplished by sending a copy of the invoice, packing slip and AWB number to **importinfo@sial.com**. Samples should be packed in an appropriate container with enough dry ice for a 5-day shipment.

   Submit samples to:

   MilliporeSigma
   Attn: MISSION® Operations
   Deconvolution Submission
   3050 Spruce Street
   St. Louis, MO 63103

   To avoid having your samples delayed in customs, please indicate that the box contains non-hazardous biological material. If sending cell pellets, you should also indicate that cell pellets do not contain cell culture media.
5. Submit an electronic copy of information referencing the content of your original pool to **MISSIONRNAi@sial.com** or to your representative in one of the following formats:
   - Send the filled out Reference Clone List (see reverse side)
   - If applicable, provide the product pool name (i.e. Human LentiPlex® Pool 1)
   - For custom sequences, send a list of unique clone names, along with their associated reference sequence

Note: To ensure safe arrival of samples, please limit shipments to Monday through Wednesday for U.S. customers.

Project Details

Price includes:

- Genomic DNA extraction or gDNA QC if submitting gDNA
- Target amplification with proprietary primer set
- Data with number of sequencing reads per clone per sample*
- Contact **MISSIONRNAi@sial.com** for quote information

Upon project completion, we will provide the sequence data via electronic copy and on a USB drive.

Estimated turnaround time is 3 to 4 weeks.†

Reference Clone List

Sample Designations: (As defined in Sample Submission Criteria)	Sample Type	Designate Biological Replicates	# of cells	DNA Concentration (µg/µL)	DNA Volume (µL)	Pool Name	# of gRNAs or shRNAs in Pool
Example: 013112Sig001	□ gDNA ☑ Cells	replicate A	8,000,000			LentiPlex® SHPH01, Pool 1	8,000
1.	□ gDNA □ Cells						
2.	□ gDNA □ Cells						
3.	□ gDNA □ Cells						
4.	□ gDNA □ Cells						
5.	□ gDNA □ Cells						
6.	□ gDNA □ Cells						
7.	□ gDNA □ Cells						
8.	□ gDNA □ Cells						
9.	□ gDNA □ Cells						
10.	□ gDNA □ Cells						
11.	□ gDNA □ Cells						
12.	□ gDNA □ Cells						
13.	□ gDNA □ Cells						
14.	□ gDNA □ Cells						
15.	□ gDNA □ Cells						

Infectious agents, other than lentivirus, have been used on these samples. □ Yes □ No

Please provide an accurate reference clone list including any added controls and lot numbers. We require annotated vector maps for pools made with external vectors.

* Note: Because of the inherent variability in the sequencing process, the # of reads or data per sample may vary +/- 10% as quoted.

†Turnaround time starts on the date when (1) sufficient sample quality (QC) is established, (2) order is received, and (3) a complete and accurate sample submission sheet is provided uniquely identifying all samples and replicates. For projects requiring DNA extraction, turnaround time starts after the extraction stage.

For more information and to order, visit **SigmaAldrich.com/deconvolution**

Order/Customer Service: **SigmaAldrich.com/order**
Technical Service: **SigmaAldrich.com/techservice**
Safety-related Information: **SigmaAldrich.com/safetycenter**

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