

**1. Investigator / Client Information**

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 PI/Lab: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
 Mailing address: \_\_\_\_\_  
 Email address: \_\_\_\_\_  
 Account to be charged: \_\_\_\_\_ PI Signature: \_\_\_\_\_ (required)\*

\*Signature of PI / client indicates consent to process samples as described in DSCL Policies & Procedures, available online.

**2. Sample Information: Complete one ticket AND one Sample Information List per sample set or flowcell and send the electronic version to the Core in addition to your paper submission.** Sample name(s) on the list should match the name(s) on sample tube(s). When multiplexing a sample set with Illumina or your self-designed barcodes, each sample should be submitted in a separate tube.

Sample preparation is key to optimal performance. The presence of carrier, partial PCR products, modified bases, etc. will adversely affect run performance. If you did not perform any pre-run QC analysis such as sequencing topo clones, MiSeq pre-check, or library profiling, you will be ineligible for a re-run should your library(s) fail during cluster formation or the actual sequence analysis run. To facilitate processing and workflow, if not using a commercial kit please submit a library design schematic, reference, results from topo cloning/sequencing (when available), and/or other QC analysis performed prior to library submission. If you made any modification to the library construction design (e.g. added linkers, cloned out of a vector, etc.) you must submit a schematic. If using a custom primer, you must submit a schematic and topo cloning results. Please contact us if you have related questions.

**Sample Classification:** Is the sample(s) infectious or pathogenic to humans? \_\_\_\_\_ If yes, please describe the material(s) and any potential biohazards. \_\_\_\_\_

*\*Recommended Library Concentration and Volume for Submission: 20ul of a 10 - 20nM solution. Please note: If you submit less than the recommended amount, there may be insufficient volume for subsequent runs!*

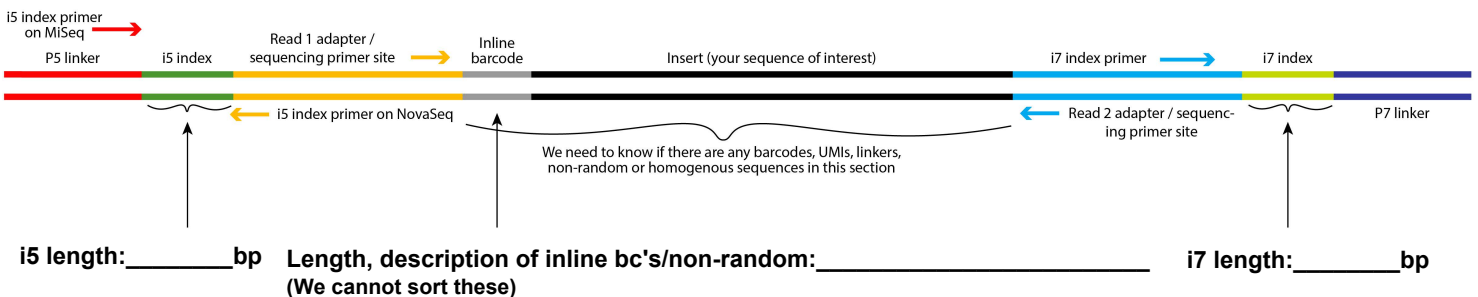
**3. Library Adaptors Used:**

Please indicate the linker/adaptor set used for library construction:

No Index in Adapters _____ old Illumina PE - Do not submit without prior approval.	Illumina Sequences with Index in Adapters _____ Illumina or TruSeq DNA/ChIP/etc. _____ TruSeq small RNA _____ Illumina or TruSeq RNA _____ Illumina or TruSeq Stranded RNA _____ Nextera v. _____ _____ Targeted Capture assay	Other Vendor Kit/Index Set _____ Chromium 10X Genomics <sup>‡</sup> Version _____ _____ Takara/Clontech (Name, P/N: _____) _____ NEB (Name, P/N: _____) _____ NanoString (Name, P/N: _____) _____ Other (Name, P/N: _____) _____ Custom* (Describe: _____)
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‡ 10X Genomics samples contain 4 indices per P7 adapter/plate well. Please do not mix 10X Gen. samples unless all four index sequences are different between samples. If you do not know which indices are in the mix, please list the ID#/adapter wells with your index information.  
 \*Adaptors requiring custom primers must be pre-approved by the Core.

**4. Multiplexed/Indexed/Barcoded Run: (Please indicate all that apply.)** Index read analysis is required for *Illumina-type* indexing, even if you intend to perform sorting as part of your own analysis. **You will only be delivered index sequencing reads for the indexing that was requested here.** Note: There is an additional charge for the index read.



Do you want PhiX DNA control added to your sample? \_\_\_\_\_ If yes, choose one: 1% (NovaSeq std), 5%, 10%, 15%, 20%, other \_\_\_\_%. **This addition is required for libraries with low sequence diversity/complexity (such as Chromium 10X) to ensure the base balance needed for optimal imaging. Please Note: Based on the information you provide, should we deem it necessary we will automatically add the appropriate % of PhiX DNA to your sample(s).**

## 5. Selection of Sequence Analysis Run Type:

Single Read (SR) is sequencing from one end of the library insert (e.g. a SR100 is 100 bases read on side 1). Paired End (PE) Reads are sequenced from both ends of the library fragment (e.g. a PE50 is 50 bases read on side 1 + 50 bases read on side 2).  
*\*Sample insert sizes >800bp are not guaranteed!*

### NovaSeq 6000 - choose both read length and # of reads per sample

Single Read 100 bases  
 Paired End Read 50 bases  
 Paired End for Chromium 10X pipeline  
    \_\_\_\_\_ x \_\_\_\_\_ bases (must be  
                    <=138 bases total  
                    including indexes)  
 Paired End Read 100 bases  
 Paired End Read 150 bases\* (\*full  
    flowcell only)

50M  
 100M  
 200M  
 400M  
 500M  
 1000M  
 2000M  
 other/see attached

### MiSeq

Single Read 50 bases  
 Paired End Read 25 bases  
 Single Read 100 bases  
 Paired End Read 100 bases  
 Single Read 150 bases  
 Paired End Read 150 bases  
 Paired End Read 250 bases  
 Paired End Read 300 bases  
 Asymmetric Read \_\_\_\_\_ x \_\_\_\_\_

## 6a. Data Processing Options

Please choose how you would like multiplexed sample data delivered.

- Standard - Results will be in fastq files for Read1 and Read2; index reads are listed in the comment line.  
 Demux - Fastq files for Read1 and Read2 are binned by identical index sequences, which are also listed in the comment line.  
 Standard Individual Reads - Results will be in separate fastq files for Read1, Read2, i7, and i5.  
 Demux Individual Reads - For each group/bin of identical indexes, results will be in separate fastq files for Read1, Read2, i7, and i5.

## 6b. Data Delivery Information

The resulting data files can be quite large in size; the DSCL delivers the entire data set generated. Please make arrangements for the mode of data transfer before sample submission. Data should be retrieved within five business days of notification, unless other arrangements are made in advance. The default mode for data delivery is by Globus. You do not need a full Globus subscription to receive data, however you do need a registered email account. Information about Globus subscription and personal use is available at <https://app.globus.org>.

If you have a Globus account, what is the email address assigned to it? \_\_\_\_\_

Do you want md5sum values? \_\_\_\_\_

**We do not archive primary or analyzed run data. Please make your own arrangements.**

## 7. Whom should the DSCL contact to arrange the transfer of data?

Name: \_\_\_\_\_ Email Address: \_\_\_\_\_

## 8. Whom should we notify when the data is ready?

Name: \_\_\_\_\_ Email Address: \_\_\_\_\_

Name: \_\_\_\_\_ Email Address: \_\_\_\_\_

## 9. Payment Policy

Sample processing requires time and reagents. Clients withdrawing samples that fail the QC process or prior to the analysis run will be charged a fee to recover the assay costs. For the return of samples post-run analysis, the client will be charged a fee per sample. In the event of a reagent or equipment failure, samples will be re-run at no additional charge. Payment for services rendered should occur in a timely fashion.

Questions? Contact us at [DeepSequencingCoreLabs@umassmed.edu](mailto:DeepSequencingCoreLabs@umassmed.edu)

### DSCL Notes:

Samples should be shipped overnight for delivery on Monday through Thursday.

#### Ship to:

Drs. E. Kittler / M. L. Zapp  
UMass Medical School, DSCL  
222 Maple Avenue  
Reed Rose Gordon Building, Room 141  
Shrewsbury MA 01545 (508-856-4787)