



SMaHT Sample & File Nomenclature

Resource for the SMaHT Network Members

Version 2.1

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Description

The SMaHT sample and file names are the primary identifiers of biosamples from the Tissue Procurement Center (TPC) and files generated by the Data Analysis Center (DAC) of the SMaHT Network (“Network”).

Overview

The SMaHT sample and file names contain identifiers that are unique and immovable, as well as semi-human-readable codes that correspond to metadata. This document describes the naming schema and tables of codes for each metadata type that are included in sample and file names. The metadata fields in the sample and file names are delimited by a hyphen (“-”). “#” indicates a single-digit integer number, and “A” indicates an alphabetical letter in this document.

Naming schema

[Project][Kit/Donor ID] - [Protocol ID] - [Tissue aliquot & Tissue core IDs] - [Sex & Age] -
 [Sequencing platform & Sequencing assay code] - [Center code] - [Unique Accession ID] -
 [Analysis info] . [File format]

Donors

Donor identifier for Tissues

The donor identifiers are assigned by the Tissue Procurement Center at NDRI (TPC), following the schema below.

| | |
|---|--|
| Schema: | Project Donor KitID |
| Benchmarking donors: | ST### |
| Production donors: | SMHT### |
| Non-benchmarking, non-production donors: | SN### |

For the benchmarking donors, the project is “**ST**”.

For the production donors, the project is “**SMHT**”.

(Note: For some donors, tissues were provided by TPC for the Tools and Technology Development groups (TTDs) to test their protocols only, not related to the benchmarking nor production studies. For these non-benchmarking, non-production donors, the project is “**SN**”).

- **Project:** **ST** for a benchmarking donor; **SMHT** for a production donor.
- **Kit ID:** Provided by TPC/NDRI. It is a three-digit pre-generated kit identifier that references the donor. **001–150** are reserved for production donors; and **001–004** for benchmarking donors.

Donor identifier for Benchmark Cell Lines

Some benchmarking samples are derived from well-established cell lines, such as COLO829 and HapMap cell lines. As these are not derived from the TPC donors, the donor identifiers are assigned shown in **Table 1**, preceded by the prefix, “**SMHT**”, e.g., **SMHTCOLO829T**,

SMHTHAPMAP6.

Table 1. Benchmarking cell line codes.

| Kit/Sample ID | Cell line description |
|---------------|-------------------------|
| COLO829T | COLO829 tumor cell line |

| | |
|--------------|---|
| COLO829BL | COLO829BL normal lymphoblast cell line |
| COLO829BLT50 | COLO829 1:50 admixture |
| HAPMAP6 | Cell admixture of six HapMap cell lines |
| LBLA2 | LB-LA2 fibroblast cell line |
| LBIPSC1 | iPSC line from clone #1 derived from the LB-LA2 fibroblast cell line |
| LBIPSC2 | iPSC line from clone #2 derived from the LB-LA2 fibroblast cell line |
| LBIPSC4 | iPSC line from clone #4 derived from the LB-LA2 fibroblast cell line |
| LBIPSC52 | iPSC line from clone #52 derived from the LB-LA2 fibroblast cell line |
| LBIPSC60 | iPSC line from clone #60 derived from the LB-LA2 fibroblast cell line |

Sample Types

Tissue

The metadata and identifiers of tissues and samples sent to sequencing centers/labs are generated at the TPC.

| | |
|--|---|
| Schema: | Project Donor KitID – Tissue ProtocolID – Tissue AliquotID CoreID |
| Benchmarking tissues: | ST### – #A – ###A# |
| Production tissues: | SMHT### – #A – ###A# |
| Non-benchmarking, non-production tissues: | SN### – #A – ###A# |

Note:

1. Unless noted, all benchmarking tissues are homogenized tissues. At specific requests by certain GCCs or TTDs, non-homogenized intact benchmarking tissues were made available for sequencing.
2. Intact tissues are used for all production tissues. They are *not* homogenized.
3. For intact tissues, solid tissues are referred to as “tissue aliquots”, which subsequently get sectioned into multiple “tissue cores” or labelled as a single “tissue specimen”, depending on the availability of the tissue material (tissue specimens are larger than cores and smaller than tissue aliquots).
4. GCCs do not rename the sample identifiers received from TPC and submit the metadata to DAC. GCCs provide DAC with the metadata they received from TPC without any alteration and provide additional metadata for any information related to further sample processing done at GCC.

- **Protocol ID:** Automatically generated by NDRI's Rhythm system. A single internal protocol group number is followed by a letter designation (A-ZZ) corresponding to a specific combination of tissue type and tissue preservation method (**Table 2**).
- **TissueAliquot IDs:** Provided by TPC/NDRI. An aliquot can refer to either a solid tissue aliquot or a liquid tissue aliquot in a vial (e.g. whole blood). An aliquot ID is a three-digit number (e.g., "001").
 - For solid tissues:
 - Aliquot ID refers to spatially numbered solid tissue aliquots from longitudinally bisected or non-bisected tissue samples. Serial tissue cores subsampled from within an aliquot are designated by a letter followed by a number (Figures 1 and 2).
 - For the homogenate benchmarking tissue (no core or tissue specimen):
 - [Metadata from GCC] **Tissue aliquot** number will be provided by TPC, e.g., **ST### - #A - ###**
 - [File names at DAC] **Tissue aliquot ID** has the value “**X**”, e.g., **ST### - #A - X**
 - To avoid having multiple homogenate aliquots associated with a file name.
 - For the non-homogenate benchmarking tissue (in either core or tissue specimen form):
 - [All] **ST### - #A - ###**
- **Core IDs:** Provided by TPC/NDRI.
 - **Core ID** for the core sample: ID is comprised of a letter between **A-F**, followed by a digit between **1-6** (ID is associated with the spatial information from within the individual tissue aliquot. See **Figure 1**.)
 - [File names at DAC] For files generated from multiple cores from the same tissue aliquot, **Tissue aliquot** number will be provided by TPC and the **Core ID** will be “MC” e.g., **SMHT### - #A - ###MC**
 - [File names at DAC] For files generated from multiple cores and multiple tissue aliquots, **Tissue aliquot** will be “MA” and the **Core ID** will be “MC” e.g., **SMHT### - #A - MAMC**
 - **Core ID** for the tissue specimen: ID is comprised of a letter between **S-W** followed by **1-9** (no spatial information associated with the ID).
 - **Core ID** for the homogenate benchmarking tissues and non-solid production tissues: Null value for the ID, i.e., “**X**”.
 - [File names at DAC] e.g., **SMHT### - #A - XX** for homogenate benchmarking tissues and **SMHT### - #A - ###X** for non-solid production tissues

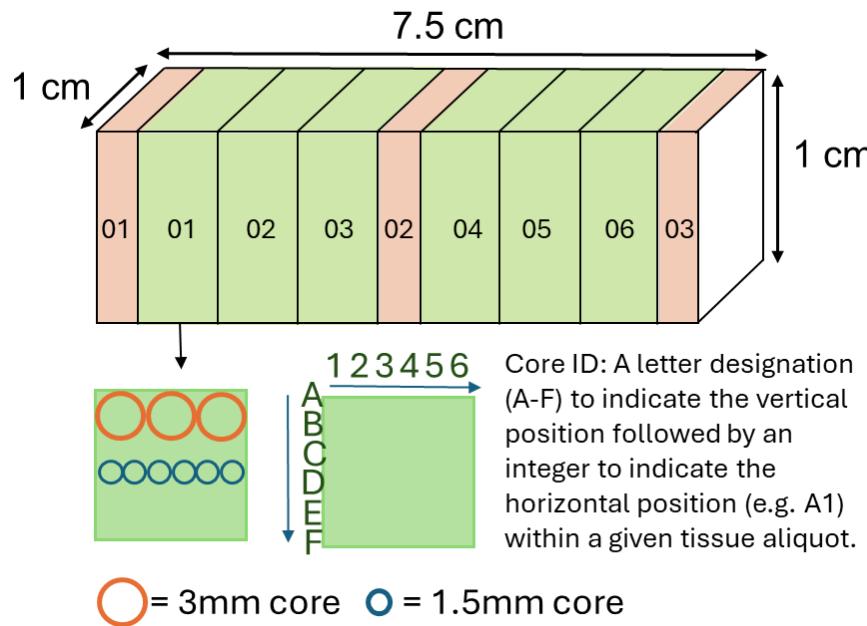


Figure 1. Example of spatially numbered tissue aliquots from non-bisected tissue samples. Fixed (pink) or frozen aliquots (green) are numbered separately. “X” represents null values to indicate samples that do not get sectioned

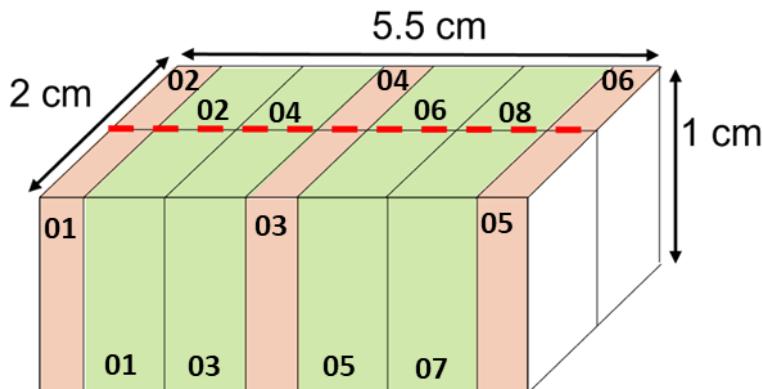


Figure 2. Example of spatially numbered tissue aliquots from longitudinally bisected tissue samples. Fixed (pink) or frozen (green) aliquots are numbered separately, in sequential order starting from the superior end of the sample.

Table 2A. Protocol IDs for SMAHT **benchmarking tissues**.

| Sample Protocol ID | Tissue Name | Preservation | Notes |
|--------------------|-------------|--------------|---------------------------------------|
| 1A | Liver | Snap Frozen | Homogenate and non-homogenate samples |

| | | | |
|----------|---------------------|-------------|---|
| 1B | <i>unassigned</i> | N/A | |
| 1C | Liver | Fixed | |
| 1D | Lung | Snap Frozen | Homogenate and non-homogenate samples |
| 1E | <i>unassigned</i> | N/A | |
| 1F | Lung | Fixed | |
| 1G | Colon | Snap Frozen | Homogenate and non-homogenate samples |
| 1H | <i>unassigned</i> | N/A | |
| 1I | Colon | Fixed | |
| 1J | Skin | Snap Frozen | Tissue specimen (~10 cm) |
| 1K | Skin | Snap Frozen | Tissue core from the intact tissue was made (~1 cm) |
| 1L | Skin | Fixed | |
| 1M/N/O/P | <i>unassigned</i> | N/A | |
| 1Q | Brain, Frontal Lobe | Snap Frozen | Homogenate and non-homogenate samples |

Table 2B. Protocol IDs for SMaHT production tissues.

| Protocol ID | Tissue Name for Container | Preservation |
|-------------|---------------------------|--------------|
| 3A | Blood, Whole | Snap Frozen |
| 3B | Buccal Swab | Fresh |
| 3C | Esophagus | Snap Frozen |
| 3D | Esophagus | Fixed |
| 3E | Colon, Ascending | Snap Frozen |
| 3F | Colon, Ascending | Fixed |
| 3G | Colon, Descending | Snap Frozen |
| 3H | Colon, Descending | Fixed |
| 3I | Liver Sample | Snap Frozen |
| 3J | Liver Sample | Fixed |

| | | |
|------|---------------------------------------|----------------|
| 3K | Adrenal Gland, Left | Snap Frozen |
| 3L | Adrenal Gland, Left | Fixed |
| 3M | Adrenal Gland, Right | Snap Frozen |
| 3N | Adrenal Gland, Right | Fixed |
| 3O | Aorta, Abdominal | Snap Frozen |
| 3P | Aorta, Abdominal | Fixed |
| 3Q | Lung | Snap Frozen |
| 3R | Lung | Fixed |
| 3S | Heart, LV | Snap Frozen |
| 3T | Heart, LV | Fixed |
| 3U | Testis, Left | Snap Frozen |
| 3V | Testis, Left | Fixed |
| 3W | Testis, Right | Snap Frozen |
| 3X | Testis, Right | Fixed |
| 3Y | Ovary, Left | Snap Frozen |
| 3Z | Ovary, Left | Fixed |
| 3AA | Ovary, Right | Snap Frozen |
| 3AB | Ovary, Right | Fixed |
| 3AC* | Dermal Fibroblast | Cultured Cells |
| 3AD | Skin, Calf | Snap Frozen |
| 3AE | Skin, Calf | Fixed |
| 3AF | Skin, Abdomen | Snap Frozen |
| 3AG | Skin, Abdomen | Fixed |
| 3AH | Muscle | Snap Frozen |
| 3AI | Muscle | Fixed |
| 3AJ | Brain | Fresh |
| 3AK | Frontal Lobe, Brain, Left hemisphere | Snap Frozen |
| 3AL | Temporal Lobe, Brain, Left hemisphere | Snap Frozen |
| 3AM | Cerebellum, Brain, Left hemisphere | Snap Frozen |

| | | |
|-----|---------------------------------------|-------------|
| 3AN | Hippocampus, Brain, Left hemisphere | Snap Frozen |
| 3AO | Hippocampus, Brain, Right hemisphere | Snap Frozen |
| 3AP | Frontal Lobe, Brain, Left hemisphere | Fixed |
| 3AQ | Temporal Lobe, Brain, Left hemisphere | Fixed |
| 3AR | Cerebellum, Brain, Left hemisphere | Fixed |
| 3AS | Frontal Lobe, Brain, Left hemisphere | Fixed |
| 3AT | Hippocampus, Brain, Right hemisphere | Fixed |

*3AC = Fibroblasts are isolated from fresh calf skin.

Cell Lines

These cell-line benchmarking samples were prepared by a GCC or TTD, not distributed by TPC. In such cases, the Kit/Sample ID is assigned by DAC as shown in **Table 1**. For cell-line samples that did not follow TPC protocols, the TissueAliquot ID and Core IDs are both “X”:

e.g., **SMHTCOLO829T - X - X**

Sample and Assay Metadata in the File Name

The file name contains the following additional metadata, delimited by a hyphen (“-”) as shown below.

[Project][Kit/Donor ID] - [Protocol ID] - [Tissue aliquot & Tissue core IDs] - [Sex & Age] - [Sequencing platform & Sequencing assay code] - [Center code] - [Unique Accession ID] - [Analysis info] . [File format]

- **Sex & Age:** Sex and age of the donor, “M” (for male) or “F” (for female), followed by the donor’s age in years. “N” and “N” will be used when sex or age is unknown or not applicable (e.g. cell line mixture).
- **Sequencing platform & assay code:** A code consisting of a single alphabetical letter corresponding to a sequencing platform, followed by a 3-digit number designated for a specific experimental assay type (**Tables 3A and 3B**).
- **Center code:** Letters corresponding to the sequencing centers, i.e., GCCs and TTDs that generated the raw sequencing data submitted to DAC (**Table 4**).

Table 3A. Sequencing platform codes.

| SMaHT code | Sequencing platform |
|------------|---|
| A | Illumina NovaSeq X, Illumina NovaSeq X Plus |

| | |
|----------------------|-------------------------|
| B | PacBio Revio HiFi |
| C | Illumina NovaSeq 6000 |
| D | ONT PromethION 24 |
| E | ONT PromethION 2 Solo |
| F | ONT MinION Mk1B |
| G | Illumina HiSeq X |
| H (Note: Deprecated) | Illumina NovaSeq X Plus |
| I | BGI DNBSEQ-G400 |
| J | Element AVITI |
| K | Illumina NextSeq 2000 |
| L | PacBio Sequel IIe |
| M | Ultima Genomics UG 100 |

Table 3B. Experimental assay codes.

| Code | Assay Name | Description |
|------------------------------------|----------------|--|
| 000 | | (Null or not-applicable) |
| <i>[001-100: DNA-based assays]</i> | | |
| 001 | WGS | DNA, PCR-free, Bulk, Whole genome sequencing (WGS) |
| 002 | PCR WGS | DNA, PCR, Bulk, WGS |
| 003 | Ultra-Long WGS | DNA, PCR-free, Bulk, Ultra-Long WGS |
| 004 | Fiber-seq | DNA, PCR-free, Bulk, Fiber-seq |
| 005 | Hi-C | DNA, Bulk, Hi-C |
| 006 | Bulk NTSeq | DNA, Bulk, NTSeq |
| 007 | CODEC | DNA, Bulk, Duplex-seq, CODEC |
| 008 | Bot-seq | DNA, Bulk, Duplex-seq, Bot-seq |
| 009 | NanoSeq | DNA, Bulk, Duplex-seq, NanoSeq |

| | | |
|------------------------------------|------------------------|--|
| 010 | scNanoSeq | DNA, Single-cell, Duplex-seq, scNanoSeq |
| 011 | DLP+ | DNA, Single-cell, DLP+ |
| 012 | Microbulk MALBAC WGS | DNA, Microbulk, MALBAC-amplified WGS |
| 013 | Single-cell MALBAC WGS | DNA, Single-cell, MALBAC-amplified WGS |
| 014 | Microbulk PTA WGS | DNA, Microbulk, PTA-amplified WGS |
| 015 | Single-cell PTA WGS | DNA, Single-cell, PTA-amplified WGS |
| 016 | scDip-C | DNA, Single-cell, scDip-C |
| 017 | CompDuplex-seq | DNA, Bulk, Duplex-seq, CompDuplex-seq |
| 018 | scCompDuplex-seq | DNA, Single-cell, Duplex-seq, scCompDuplex-seq |
| 019 | Strand-seq | DNA, Bulk, Strand-seq |
| 020 | scStrand-seq | DNA, Single-cell, scStrand-seq |
| 021 | HiDEF-seq | DNA, Bulk, Duplex-seq, HiDEF-seq |
| 022 | HAT-seq | DNA, Bulk, HAT-seq |
| 023 | Microbulk HAT-seq | DNA, Microbulk, PTA-amplified HAT-seq |
| 024 | scHAT-seq | DNA, Single-cell, PTA-amplified, HAT-seq |
| 025 | VISTA-seq | DNA, Bulk, Duplex-seq, VISTA-seq |
| 026 | Microbulk VISTA-seq | DNA, Microbulk, Duplex-seq, VISTA-seq |
| 027 | scVISTA-seq | DNA, Single-cell, Duplex-seq, VISTA-seq |
| 028 | TEnCATS | DNA, Bulk, TEnCATS |
| 029 | L1-ONT | DNA, Bulk, L1-ONT |
| 030 | ppmSeq | DNA, Bulk, Duplex-seq, ppmSeq |
| <i>[101-200: RNA-based assays]</i> | | |
| 101 | RNA-seq | RNA, Bulk, RNA-seq |
| 102 | Kinnex | RNA, Bulk, Kinnex |
| 103 | snRNA-seq | RNA, Single-cell, snRNA-seq |

| | | |
|--|---------------|---------------------------------------|
| 104 | STORM-seq | RNA, Single-cell, STORM-seq |
| 105 | Tranquil-seq | RNA, Single-cell, Tranquil-seq |
| <i>[201-300: Chromatin-based assays]</i> | | |
| 201 | ATAC-seq | Chromatin, Bulk, ATAC-seq |
| 202 | CUT&Tag | Chromatin, Bulk, CUT&Tag |
| 203 | varCUT&Tag | Chromatin, Bulk, varCUT&Tag |
| 204 | sc-varCUT&Tag | Chromatin, Single-cell, sc-varCUT&Tag |

Table 4. SMaHT data generation center codes.

| Code | Category | Institute | Contact PI |
|--------|----------|--|-------------------|
| bcm | GCC | Baylor College of Medicine | Richard Gibbs |
| broad | GCC | Broad Institute | Kristin Ardlie |
| nygc | GCC | New York Genome Center | Soren Germer |
| uwsc | GCC | University of Washington & Seattle Children's Hospital | Jimmy Bennett |
| washu | GCC | Washington University in St. Louis | Ting Wang |
| bcm1 | TTD | Baylor College of Medicine | Chuck Zong |
| bcm2 | TTD | Baylor College of Medicine | Fritz Sedlazeck |
| bch1 | TTD | Boston Children's Hospital | Christopher Walsh |
| bch2 | TTD | Boston Children's Hospital | Sangita Choudhury |
| broad1 | TTD | Broad Institute | Fei Chen |
| cwru | TTD | Case Western Reserve University | Fulai Jin |
| dfci | TTD | Dana-Farber Cancer Institute | Kathleen Burns |
| mayo | TTD | Mayo Clinic | Alexej Arbyzov |
| nyu | TTD | New York University | Gilad Evrony |
| stfd | TTD | Stanford University | Alexander Urban |
| umass | TTD | University of Massachusetts | Thomas Fazzio |
| umich | TTD | University of Michigan | Ryan Mills |

| | | | |
|--------|-----|---|-------------|
| utah | TTD | University of Utah | Gabor Marth |
| wcnygc | TTD | Weill Cornell Medicine & New York Genome Center | Dan Landau |
| dac | DAC | Harvard Medical School | Peter Park |
| tpc | TPC | National Disease Research Interchange (NDRI) | Thomas Bell |

File and Other Information in the File Name

The data processing and analysis-related metadata and codes are included in the file name by

[Project][Kit/Donor ID] - [Protocol ID] - [Tissue aliquot & Tissue core IDs] - [Sex & Age] -
 [Sequencing platform & Sequencing assay code] - [Center code] - **[Unique Accession ID]** -
[Analysis info] . [File format]

- **Unique Accession ID:** Automatically generated unique accession ID with the “SM” prefix (for SMaHT) for a file stored at DAC. This ID can also be used as an identifier to search the file via the SMaHT data portal.
- **Analysis info and File format:** Information about the analysis used to generate the file can be added here using the following format, delimited by an underscore (“_”).
 - For unaligned raw sequence files, a null value, “X”, is set for the analysis info field.
 - **[Tool name and version; separated by “_”] _ [Genome version] _ [Data type / feature] _ [Other info]**
 - e.g. Unaligned FASTQ
 ...-SMAUR192K21D-X.fastq.gz
 - e.g. Unaligned BAM
 ...-SMAUR192K21D-X.bam
 - e.g. BAM aligned against GRCh38 using Sentieon BWA-MEM
 ...-SMAAR1LD95K6-sentieon_bwamem_202308.01_GRCh38.aligned.sorted.bam
 - e.g. VCF of somatic calls using Strelka2 called against the GRCh38 reference genome
 ...-SMAVC1LD95K6-strelka2_4.14_GRCh38.vcf
 - **Tool name and version (mandatory):** Software/Computational tool name and version used to generate the file, e.g. bwamem_0.7.17.
 - For custom analysis pipelines, tool name is “custom”, e.g. custom_1.0
 - **Genome version (optional):** Reference genome version used for aligned sequence files, or variant type for VCF files (**Table 5A**).
 - **Data type or feature (optional; Table 5B):**
 - Includes additional key info delimited by an underscore (“_”).

- For donor-specific assembly files, this can include the haplotype for fasta files and the direction of chain files for reference conversion (SourceToTarget)
- For RNA-Seq data, this can include the GENCODE version and whether counts are for genes or isoforms

Table 5. Genome version (A) and data type (B) tables.**(A)**

| Reference Genome | Code |
|--------------------------------|------------|
| GRCh38 without ALT contigs | GRCh38 |
| GRCh38 with ALT contigs | GRCh38_ALT |
| T2T CHM13 | CHM13 |
| Donor-specific genome assembly | DSA |

(B)

| Data Type | Code |
|--|--------------------------|
| Reference conversion | [Source]To[Target] |
| Donor-specific genome assembly haplotype | hapX, hapY, hapX1, hapX2 |
| Gene expression level | gene |
| Transcript isoform expression level or isoform information | isoform |
| Junction annotations | junction |
| Full-length, non-concatemer (FLNC) Kinnex reads | flnc |
| Aligned consensus Duplex-Seq BAM | consensus |

Examples

Benchmarking Cell Line Names

1. COLO829
SMHTCOLO829T - X - X - M45
2. COLO829BL
SMHTCOLO829BL - X - X - M45

3. COLO829 1:50 mixture
SMHTCOLO829BLT50 - X - X - M45
4. HapMap mixture
SMHTHAPMAP6 - X - X - NN
5. iPSC / fibroblast, e.g. LB-IPSC 1
SMHTLBIPSC1 - X - X - M29

File Names

[Note that space was added to make the delimiters (i.e., “-” and “_”) more visible]

[Project][Kit/Donor ID] - [Protocol ID] - [Tissue aliquot & Tissue core IDs] - [Sex & Age] -
 [Sequencing platform & Sequencing assay code] - [Center code] - [Unique Accession ID] -
 [Analysis info] . [File format]

Files Generated from Benchmarking Samples

Bulk WGS on Illumina NovaSeqX - FASTQ file of the COLO829T-COLO829BL 1:50 admixture from BCM-GCC:

SMHTCOLO829BLT50 - X - X - M45 - A001 - bcm - SMAUR123JK01 - X .
 fastq.gz

FiberSeq on PacBio HiFi - unaligned BAM file of the COLO829 tumor cell line from UWSC-GCC:

SMHTCOLO829T - X - X - M45 - B003 - uwsc - SMAUR89QQ3LA - X .
 bam

FiberSeq on PacBio HiFi - aligned BAM file of the COLO829 tumor cell line from UWSC-GCC, aligned to GRCh38, sorted by read name, and phased:

SMHTCOLO829T - X - X - M45 - B003 - uwsc - SMAFI57S7SLA -
 pbmm_2.6_GRCh38 . aligned.sorted.phased.bam

Bulk WGS on Ultima Genomics - SNVs called using Strelka2 from COLO829 1:50 admixture against COLO829BL from NYGC-GCC:

SMHTCOLO829BLT50 - X - X - M45 - M001 - nygc - SMAVC29A1QR7 -
 strelka_2.9_GRCh38 . vcf

Bulk WGS on Illumina NovaSeqX - FASTQ file of the HapMap mixture from Broad-GCC:

SMHTHAPMAP6 - X - X - NN - A001 - broad - SMAUR89XAY38 - X .
 fastq.gz

- **Aligned CRAM file from the FASTQ file above:**
SMHTHAPMAP6 - X - X - NN - A001 - broad - SMAFI33A9K6R - sentieon_bwamem_202308.01_GRCh38 . aligned.sorted.cram
- **VCF that contains HapMap mixture-specific variants identified by running Mutect 2 on the BAM file above:**
SMHTHAPMAP6 - X - X - NN - A001 - broad - SMAVC3R123U9 - mutect_4.1.4.1_GRCh38 . vcf

DSA - COLO829 1:50 admixture against COLO829BL from haplotype with X chromosome:

SMHTCOLO829BLT50 - X - X - M45 - F001 - nygc - SMASF29A1QR7 - hifiasm_2.4_hapX . fasta

Accompanying chain file for DSA COLO829 1:50 admixture against COLO829BL:

SMHTCOLO829BLT50 - X - X - M45 - F001 - nygc - SMASF29A1QR7 - softwareVersion_GRCh37ToDSA . chain.gz

Bulk WGS on Illumina NovaSeq X - CRAM file of the benchmarking tissue from UWSC-GCC:

ST002 - 1G - XX - M74 - A001 - uwsc - SMAFIQUWOL9M - sentieon_bwamem_202308.01_GRCh38 . aligned.sorted.cram

Files Generated from Production Samples**Bulk WGS on Illumina NovaSeqX Plus - CRAM file of a single production tissue core from UWSC-GCC:**

SMHT001 - 3E - 001A1 - M42 - A001 - uwsc - SMAFIQUWOL9M - sentieon_bwamem_202308.01_GRCh38 . aligned.sorted.cram

Bulk WGS on Illumina NovaSeqX Plus - CRAM file of multiple production tissue cores from the same tissue aliquot from UWSC-GCC:

SMHT001 - 3E - 001MC - M42 - A001 - uwsc - SMAFIQUWOL9M - sentieon_bwamem_202308.01_GRCh38 . aligned.sorted.cram

Bulk WGS on Illumina NovaSeqX Plus - CRAM file of multiple production tissue cores from multiple tissue aliquots from UWSC-GCC:

SMHT001 - 3E - MAMC - M42 - A001 - uwsc - SMAFIQUWOL9M - sentieon_bwamem_202308.01_GRCh38 . aligned.sorted.cram

**Bulk RNA-Seq on Illumina Novaseq 6000 of a single production tissue core from
BCM-GCC:**

- **BAM file:**

SMHT001 - 3E - 001A1 - M42 - C101 - bcm - SMAFIQUWOL9M -
star_2.7.10b_GRCh38_gencode_v47 . aligned.sorted.bam

- **TSV file of gene counts**

SMHT001 - 3E - 001A1 - M42 - C101 - bcm - SMAFIQUWOL9M -
rsem_v1.3.3_GRCh38_gencode_v47_gene . tsv

- **TSV file of isoform counts**

SMHT001 - 3E - 001A1 - M42 - C101 - bcm - SMAFIQUWOL9M -
rsem_v1.3.3_GRCh38_gencode_v47_isoform . tsv

- **Tar file of RNASEQC output**

SMHT001 - 3E - 001A1 - M42 - C101 - bcm - SMAFIQUWOL9M -
rnaseqc_v2.4.2_GRCh38_gencode_v47 . tar.gz