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TCGA barcode

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The **TCGA barcode** was the primary identifier of [biospecimen data](#) since the [pilot project](#) began. However, since for any one sample, the barcode can change as the meta-data associated with it changes, the TCGA project transitioned to using [UUIDs](#) as the primary identifier.

Overview

Historically, the [BCR](#) received [participant samples](#) and their associated metadata from [TSSs](#). The BCR then assigned human-readable IDs, referred to as TCGA barcodes, representing the metadata of the participants and their samples. TCGA barcodes were used to tie together data that spans the TCGA network, since the IDs uniquely identify a set of results for a particular sample produced by a particular data-generating center (i.e. [GCC](#), [GSC](#) or [GDAC](#)). The constitutive parts of this barcode provided metadata values for a sample.

Currently the BCR is assigning both a TCGA barcode and a UUID to samples. The UUID is the primary identifier.

For more information on the ID transition, see [UUIDs](#).

Creating Barcodes

All TCGA barcodes are created by the BCR. The following figure illustrates how a sample is processed and assigned a TCGA barcode at each step. Starting from the [Tissue Source Site \(TSS\)](#) and the [participant](#) (who donated a tissue sample to the TSS), the barcodes TCGA-02 and TCGA-02-0001 are assigned respectively. The [sample](#) itself is also assigned a barcode: TCGA-02-0001-01. The sample is split into [vials](#) (e.g. TCGA-02-0001-01B) which are divided into [portions](#) (e.g. TCGA-02-0001-01B-02). [Analytes](#) (e.g. TCGA-02-0001-01B-02D) are extracted from each portion and distributed across one or more plates (e.g. TCGA-02-0001-01B-02D-0182), where each well is identified as an [aliquot](#) (e.g. TCGA-02-0001-01B-02D-0182-06). These plates are sent to [GCCs](#) or [GSCs](#) for characterization and sequencing.

Reading Barcodes

A TCGA barcode is composed of a collection of identifiers. Each specifically identifies a TCGA [data element](#). Refer to the following figure for an illustration of how [metadata](#) identifiers comprise a barcode. An [aliquot](#) barcode, an example of which shows in the illustration, contains the highest number of identifiers.

Label	Identifier for	Value	Value description	Possible values
Project	Project name	TCGA	TCGA project	TCGA
TSS	Tissue source site	02	GBM (brain tumor) sample from MD Anderson	See Code Tables Report
Participant	Study participant	0001	The first participant from MD Anderson for GBM study	Any alpha-numeric value
Sample	Sample type	01	A solid tumor	Tumor types range from 01 - 09, normal types from 10 - 19 and control samples from 20 - 29. See Code Tables Report for a complete list of sample codes
Vial	Order of sample in a sequence of samples	C	The third vial	A to Z
Portion	Order of portion in a sequence of 100 - 120 mg sample portions	01	The first portion of the sample	01-99
Analyte	Molecular type of analyte for analysis	D	The analyte is a DNA sample	See Code Tables Report
Plate	Order of plate in a sequence of 96-well plates	0182	The 182nd plate	4-digit alphanumeric value
Center	Sequencing or characterization center that will receive the aliquot for analysis	01	The Broad Institute GCC	See Code Tables Report

Barcode Types

Barcodes can also be visualized hierarchically, with TSS barcodes at the top of the tree and aliquot barcodes at the bottom. A parent barcode prefixes any of its descendent barcodes, reflecting the derivation of one biospecimen type from another. For example, samples are collected from a participant and so the corresponding sample barcodes contain the participant barcode from which they were derived.

Using the aliquot barcode example from the figure in [Reading Barcodes](#), the following table displays a possible set of related barcodes at each level of the hierarchy:

Level	Barcode	Comment
TSS	TCGA-02	
Participant	TCGA-02-0001	
Drug	TCGA-02-0001-C1	Drug ID is 'C','D','H','I' or 'T' followed by a number
Examination	TCGA-02-0001-E3124	Examination ID is 'E' followed by a number
Surgery	TCGA-02-0001-S145	Surgery ID is 'S' followed by a number
Radiation	TCGA-02-0001-R2	Radiation ID is 'R' followed by a number
Sample	TCGA-02-0001-01	
Portion	TCGA-02-0001-01C-01	
Shipped Portion	TCGA-CM-5341-01A-21-1933-20	Used in the platform of MDA_RPPA_CORE only
Slide	TCGA-02-0001-01C-01-TS1	Tissue slide ID can be 'TS' ('Top Slide'), 'BS' ('Bottom Slide') or 'MS' ('Middle slide'), followed by a number or letter to indicate slide order
Analyte	TCGA-02-0001-01C-01D	Analytes of W and X both refer to analytes derived from whole genome amplification
Aliquot	TCGA-02-0001-01C-01D-0182-01	

No labels