



cDNA Specifications for Quantitative Gene Expression

- 1 Sample Quality
 - 1.1. First-strand cDNA samples provided should be synthesized from RNA amounts ranging from 100 to 1000 ng. Higher amounts of RNA used would yield higher amounts of cDNA of interest.
 - 1.2. RT reaction priming (random primers, polyT primers, etc.) used during cDNA synthesis should be provided before assay design.
- 2 Sample Quantity
 - 2.1 cDNA minimum requirement per well data point: 2 uL
 - 2.2 If less cDNA is available, please discuss prior to study agreement.
- 3 Sample Format
 - 3.1 Tubes:
 - 3.1.1 Samples can be provided in sealable, screw-top, or snap-top tubes.
 - 3.2 Plates:
 - 3.2.1 Samples can be provided in 96 well plates.
 - 3.2.2 Plate types:
 - 3.2.2.1 The sample plates will differ depending on sample volumes to be sent.
 - 3.2.2.1.1 Sample Volume (200-800 uL): 96 Deep-well Abgene Plate, Cat. No: AB-0765 (www.abgene.com) in conjunction with 96 matrix screenmat, Cat. No: 4411 (www.matrixtechcorp.com) .
 - 3.2.2.1.2 Sample Volume (5-200 uL): 96 Standard Sterile Polypropylene NUNC Plate, Cat. No: 249946 (www.nuncbrand.com) in conjunction with 96 Nunc sterile cap mat, Cat. No: 276000 (www.nuncbrand.com) .
- 4 Shipping
 - 4.1 If shipping sample tube (s), freeze sample tubes first, then, place the tube (s) inside a cardboard box (es) and sealed the box (es).
 - 4.2 If shipping sample plate (s), ensure that the plate (s) are completely sealed and frozen and covered in bubble wrap before placing in shipping boxes.
 - 4.3 Cardboard shipping boxes should contain a styrofoam box inside where sample plates or tube box (es) should be placed in a horizontal orientation. If necessary, use spacers (styrofoam or cardboard) to fill empty spaces.
 - 4.4 For shipments within the United States:
 - 4.4.1 Ship samples frozen with at least 5 kg of dry ice.

- 4.4.2 Ship on Monday or Tuesday and verify that samples will be delivered to the Genetic Services Laboratory within the same week of shipment by Friday as the latest.
- 4.5 For international shipments:
- 4.5.1 Ship samples frozen with at least 10 kg of dry ice.
- 4.5.2 Ship preferably on Monday and verify that samples will be delivered on a working day, Monday thru Friday.
- 4.6 Do not ship for receipt on any standard U.S. holidays.
- 4.7 E-mail the customer liaison (services@sequenom.com) before shipping to confirm shipping date. Do not ship samples until Sequenom has confirmed shipping date.
- 4.8 E-mail the customer liaison (services@sequenom.com) on the day the samples are shipped and provide the shipping company name and the tracking number.
- 4.9 Ship to:
- SEQUENOM, Inc.
Attn: Genetic Services Laboratory
3595 John Hopkins Court
San Diego CA, 92121
Phone 858-202-9035

5 Sample File Specifications

- 5.1 E-mail an excel file with the following information and format to the customer liaison, (services@sequenom.com) unless stated otherwise within contract. A *Sample File Template* can be provided upon request.
- 5.2 Tube required information: Tube ID or Tube Barcode, Sample ID or Barcode, Box Well ID in three digits (A01, A02, etc.) proceeding left to right, top to bottom, sample volume in uL, and comments.

Tube Sample File Example:

Tube_ID	Sample_ID	Box Well_ID	Volume_(uL)	Comments
ABCD1	1234	A01	200	
ABCD1	1235	A02	200	
ABCD1	1236	A03	200	

- 5.3 Plate required information: Plate ID or Plate Barcode, Sample ID or Barcode, Well ID in three digits (A01, A02, etc.) proceeding left to right, top to bottom, sample volume in uL, and comments.

Plate Sample File Example:

Plate_ID	Sample_ID	Well_ID	Volume_(uL)	Comments
ABCD1	1234	A01	20	
ABCD1	1235	A02	20	
ABCD1	1236	A03	20	

- 5.4 NOTE: Sequenom will not accept samples without an electronic sample information file.
- 5.5 E-mail the customer liaison (services@sequenom.com) for any modification of sample information format.

