

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Reagent cost for synthesizing TEQUILA probes.

File Name: Supplementary Data 2

Description: Cost comparison between IDT xGen Lockdown probes and TEQUILA probes.

File Name: Supplementary Data 3

Description: Test panel of 10 human brain genes.

File Name: Supplementary Data 4

Description: Summary statistics for targeted long-read sequencing of human brain total RNA.

File Name: Supplementary Data 5

Description: SIRV-Set 4 modules used for targeted long-read sequencing.

File Name: Supplementary Data 6

Description: Summary statistics for sequencing protocol comparison.

File Name: Supplementary Data 7

Description: Panel of 221 genes encoding human splicing factors (SFs).

File Name: Supplementary Data 8

Description: Summary statistics for short-read RNA-seq of SH-SY5Y cell line.

File Name: Supplementary Data 9

Description: Panel of 468 actionable cancer genes.

File Name: Supplementary Data 10

Description: Panel of 40 breast cancer cell lines.

File Name: Supplementary Data 11

Description: Sequencing summary statistics for 40 breast cancer cell lines.

File Name: Supplementary Data 12

Description: Summary of identified subtype-associated transcript isoforms of 468 actionable cancer genes in 40 breast cancer cell lines.

File Name: Supplementary Data 13

Description: Cell culture conditions recommended by ATCC for 40 breast cancer cell lines.

File Name: Supplementary Data 14

Description: List of oligonucleotides, primers, and probe sequences.

File Name: Supplementary Data 15

Description: Summary of nanopore RNA-seq libraries.