## **Description of Additional Supplementary Files**

File name: Supplementary Data 1

**Description:** Model performance metrics for each prediction task by cancer type, predictor,

percentage RNA-seq, classifier used, normalization method, and test data platform

File name: Supplementary Data 2

**Description:** Pathway-Level Information Extractor (PLIER) results for breast cancer (BRCA), separated

by normalization method (nmeth), percentage RNA-seq (pseq), and replication seed index

(seed\_index)

File name: Supplementary Data 3

Description: Pathway-Level Information Extractor (PLIER) results for glioblastoma (GBM), separated

by normalization method (nmeth), percentage RNA-seq (pseq), and replication seed index

(seed\_index)