

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Experimental pipelines' specifications

File Name: Supplementary Data 2

Description: Cell lines screened in both studies

File Name: Supplementary Data 3

Description: Common dependencies in each study

File Name: Supplementary Data 4

Description: Gene NormLRT scores in both studies

File Name: Supplementary Data 5

Description: (a) Studies' agreement across tissues; (b) Cell line molecular features used in the systematic inference of gene essentiality markers

File Name: Supplementary Data 6

Description: Dependency markers test results from the two individual studies

File Name: Supplementary Data 7

Description: Marker consistency via ROC analysis

File Name: Supplementary Data 8

Description: GO:terms enriched in the Broad-exclusive dependencies