Figure 5 – figure supplement 2
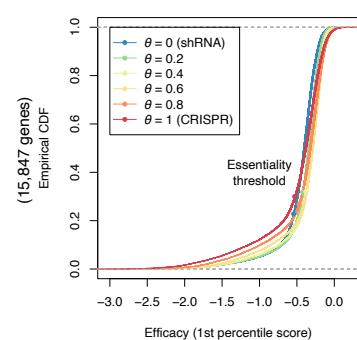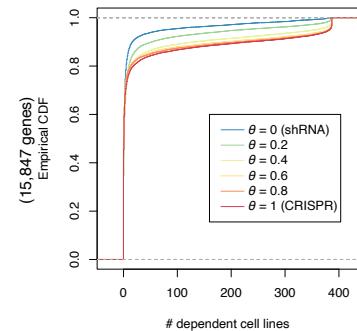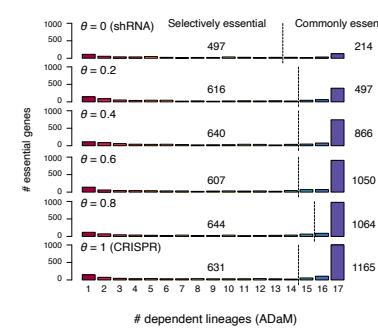

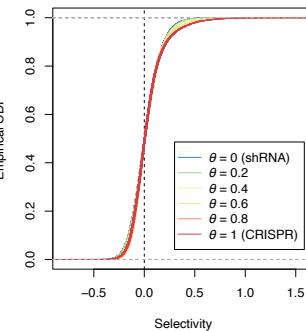**A**

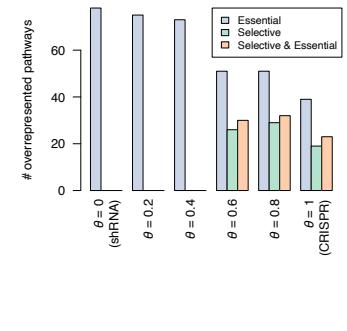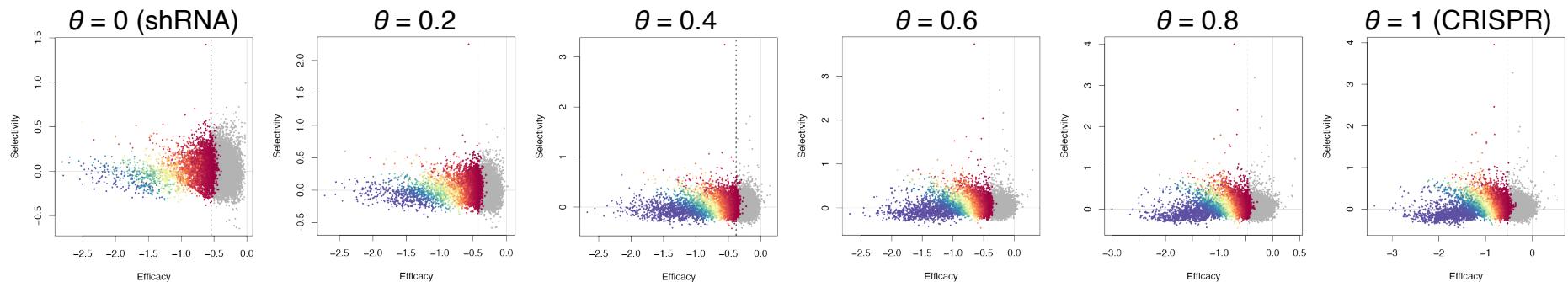Empirical CDF (15,847 genes)

θ = 0 (shRNA)
θ = 0.2
θ = 0.4
θ = 0.6
θ = 0.8
θ = 1 (CRISPR)

Essentiality threshold

Efficacy (1st percentile score)

B

Empirical CDF (15,847 genes)

θ = 0 (shRNA)
θ = 0.2
θ = 0.4
θ = 0.6
θ = 0.8
θ = 1 (CRISPR)

dependent cell lines

C

essential genes

Selectively essential   Commonly essential

θ = 0 (shRNA)   497   214
θ = 0.2   616   497
θ = 0.4   640   866
θ = 0.6   607   1050
θ = 0.8   644   1064
θ = 1 (CRISPR)   631   1165

dependent lineages (ADaM)

G

Empirical CDF

θ = 0 (shRNA)
θ = 0.2
θ = 0.4
θ = 0.6
θ = 0.8
θ = 1 (CRISPR)

Selectivity

H

overrepresented pathways

Essential
Selective
Selective & Essential

θ = 0 (shRNA)   θ = 0.2   θ = 0.4   θ = 0.6   θ = 0.8   θ = 1 (CRISPR)

D # dependent cell lines (X=1)

θ = 0 (shRNA)   θ = 0.2   θ = 0.4   θ = 0.6   θ = 0.8   θ = 1 (CRISPR)

Selectivity vs Efficacy

E # dependent lineages (X=1)

θ = 0 (shRNA)   θ = 0.2   θ = 0.4   θ = 0.6   θ = 0.8   θ = 1 (CRISPR)

Selectivity vs Efficacy

F # dependent lineages vs # dependent cell lines (X=1)

θ = 0 (shRNA)   θ = 0.2   θ = 0.4   θ = 0.6   θ = 0.8   θ = 1 (CRISPR)

depending cells vs # depending lineages