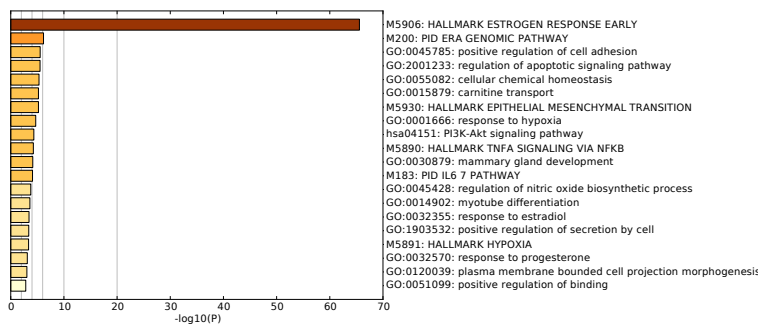
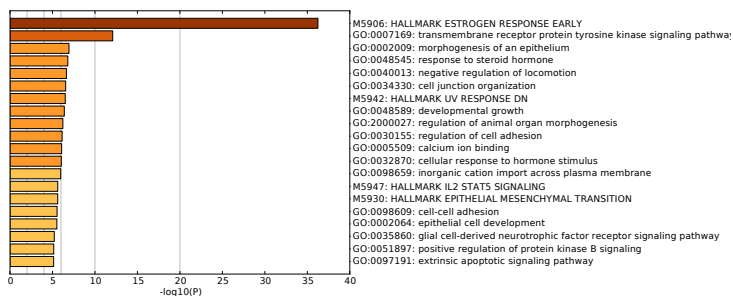


Supplementary Figure 1

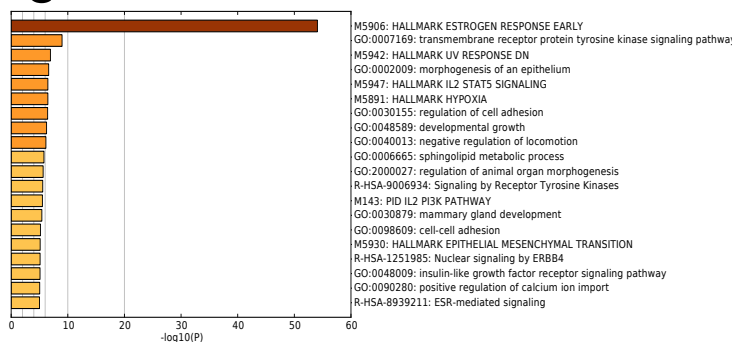
A Tam down-regulated



B PAX2 down-regulated

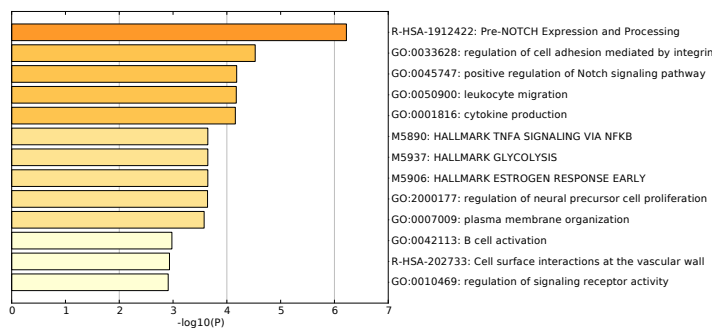


C PAX2 Tam down-regulated

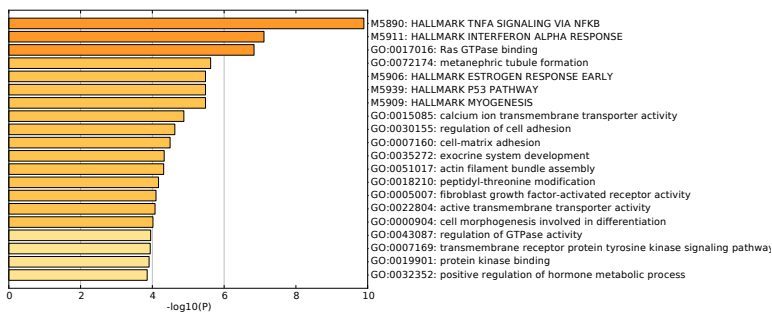


Supplementary Figure 2

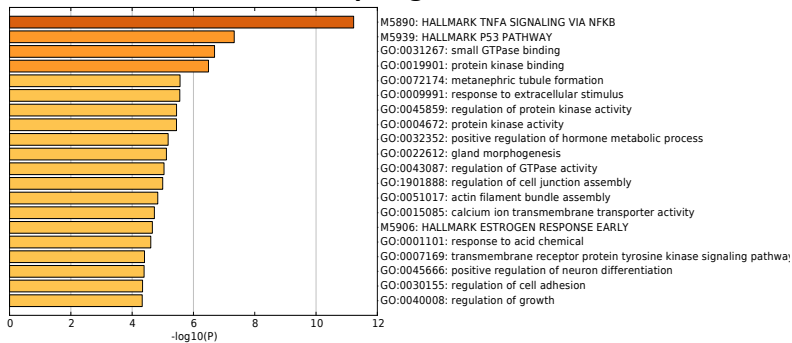
A Tam up-regulated



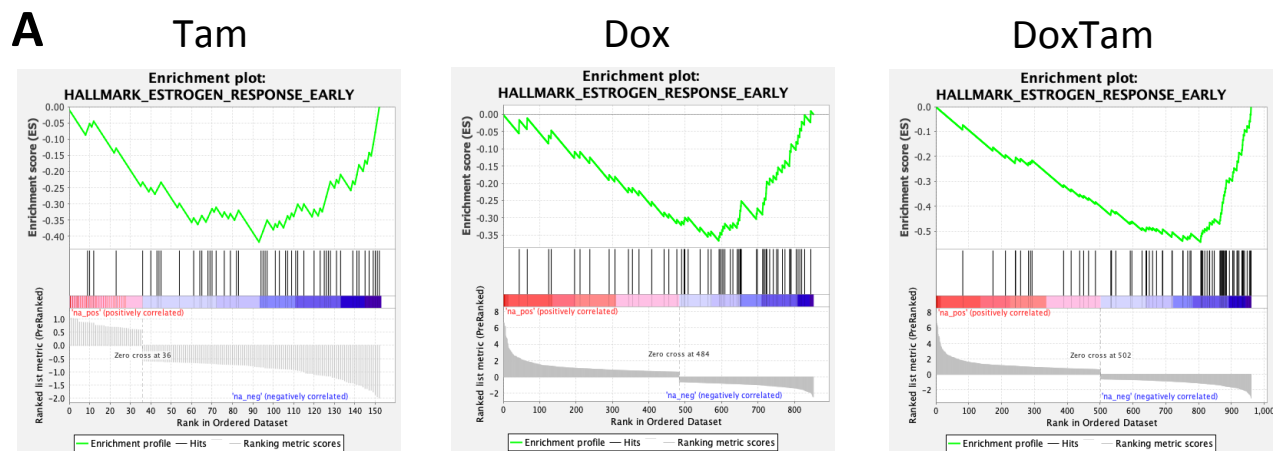
B PAX2 up-regulated



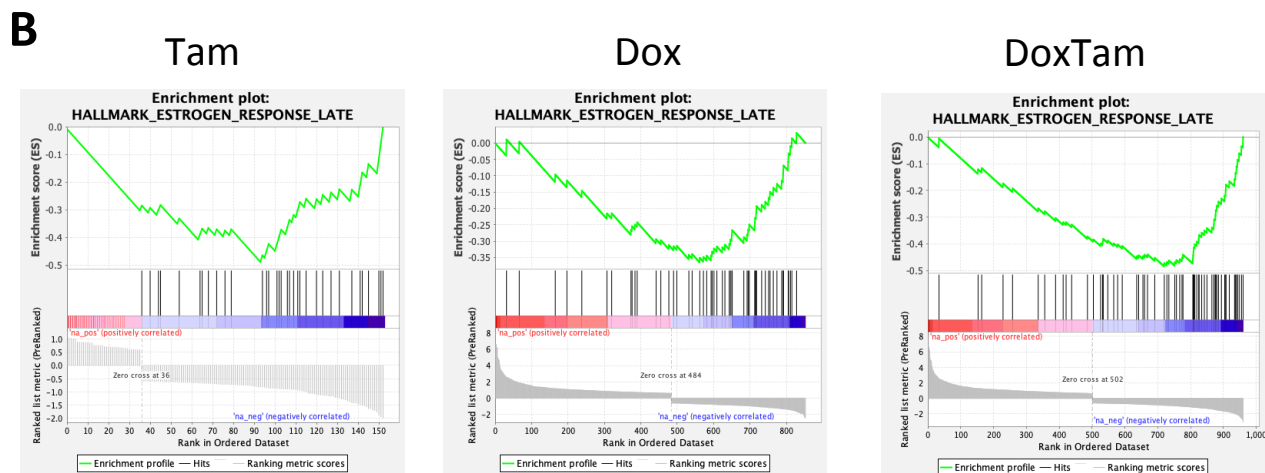
C PAX2 Tam up-regulated



Supplementary Figure 3

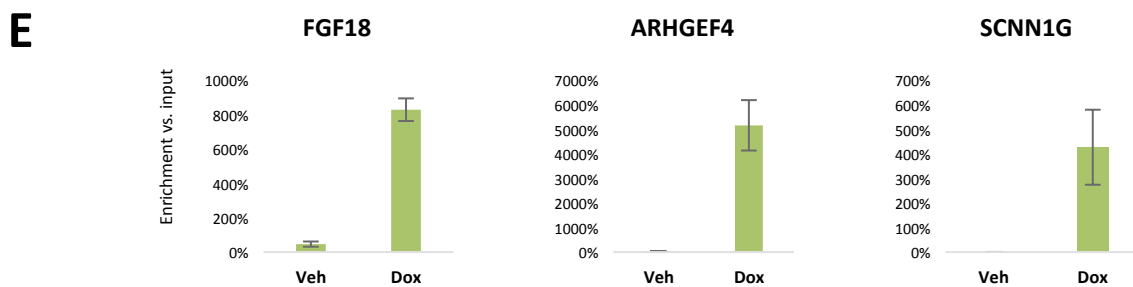
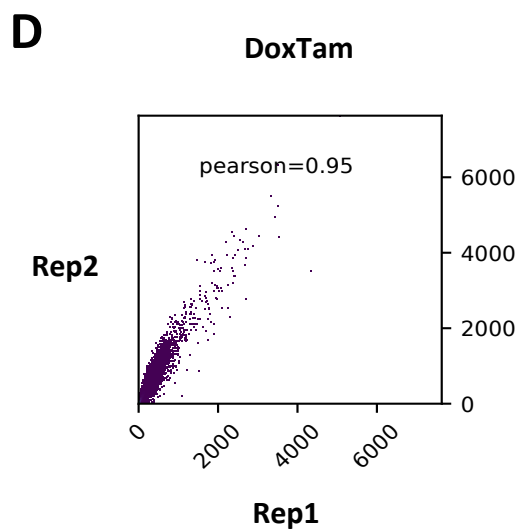
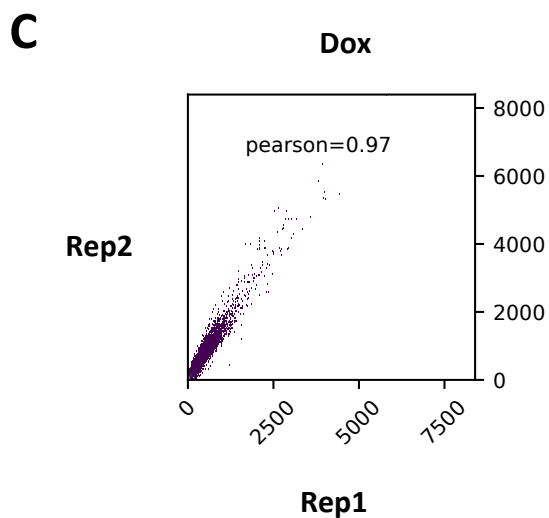
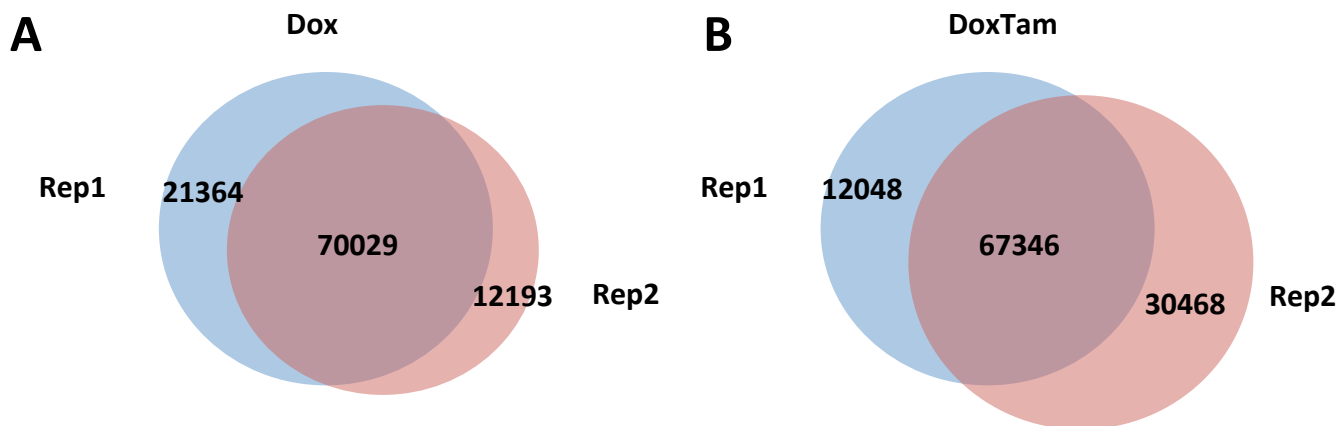


Estrogen response early	ES	NES	FDR
Tam	-0.42	-1.97	0.002
Dox	-0.37	-2.37	0.002
DoxTam	-0.54	-3.53	0.000



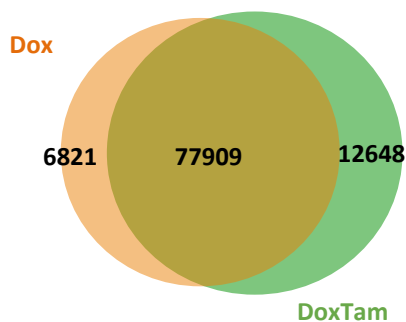
Estrogen response late	ES	NES	FDR
Tam	-0.49	-2.15	0.001
Dox	-0.36	-2.3	0.002
DoxTam	-0.48	-3.02	0.000

Supplementary Figure 4

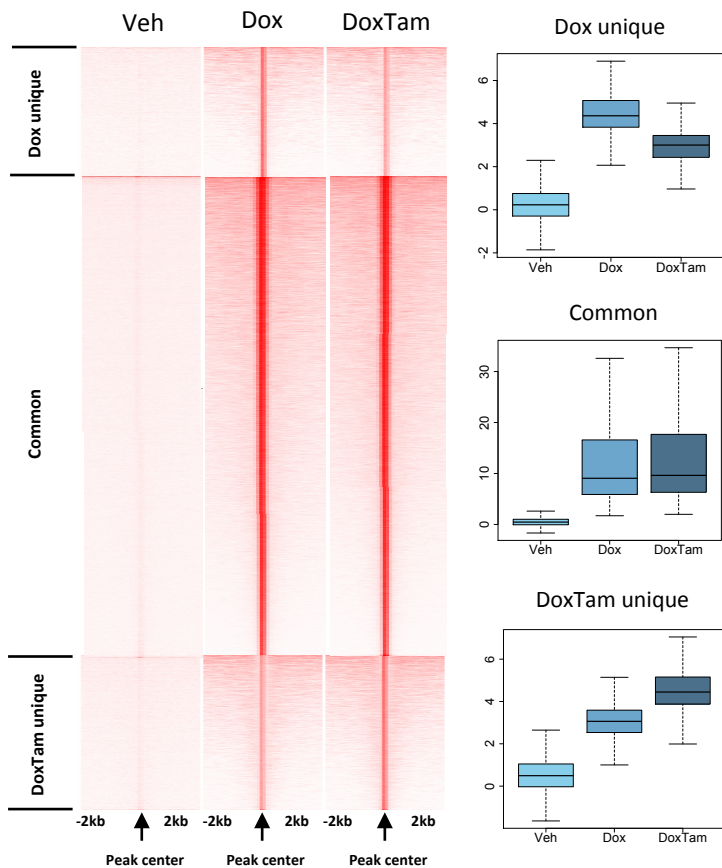


Supplementary Figure 5

A

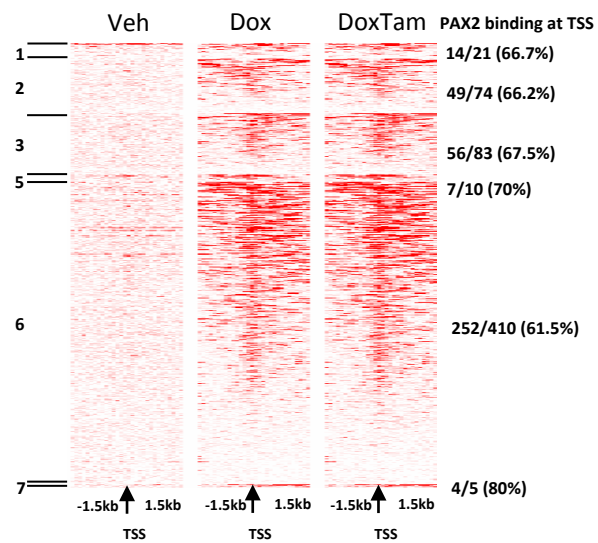


B

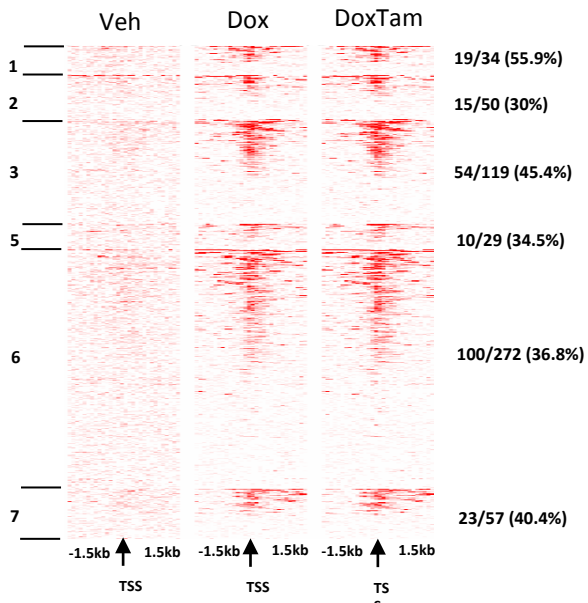


C

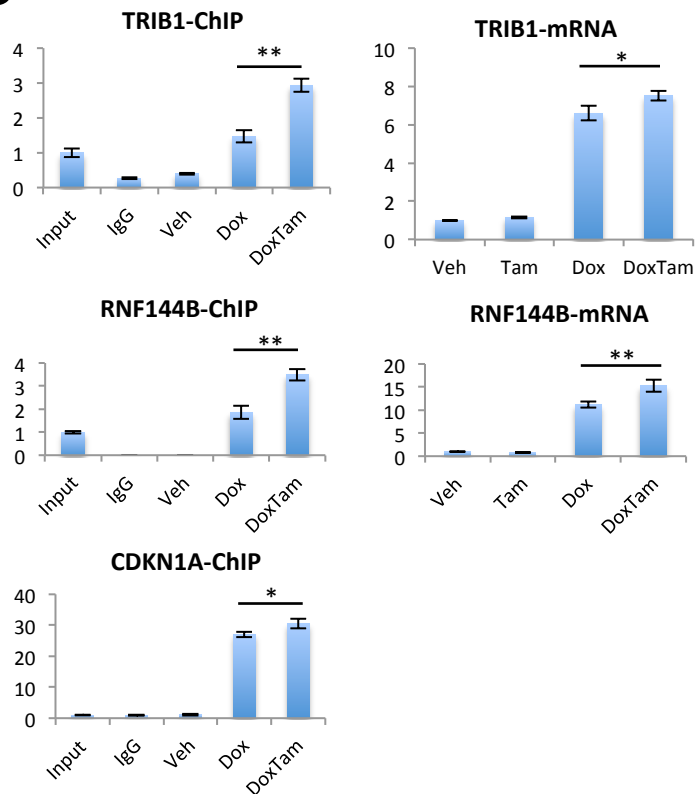
Up-regulated genes



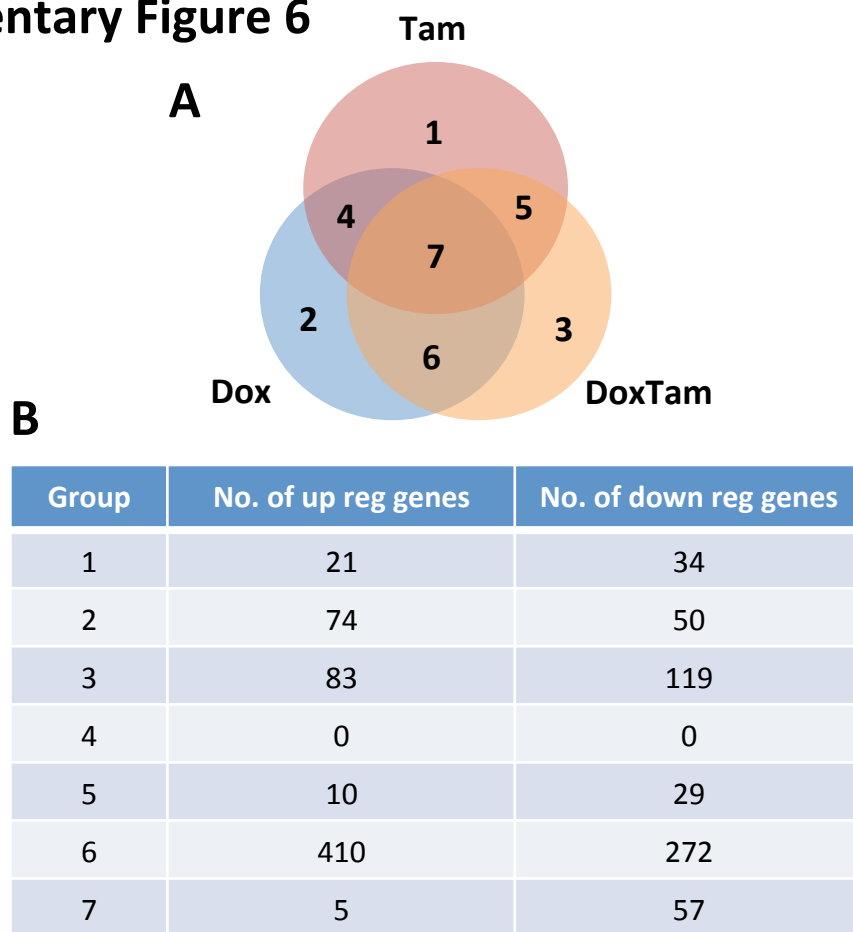
Down-regulated genes



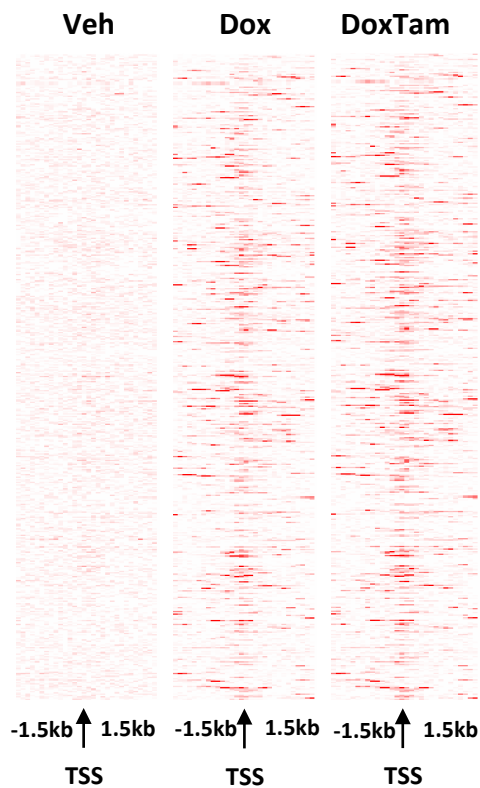
D



Supplementary Figure 6

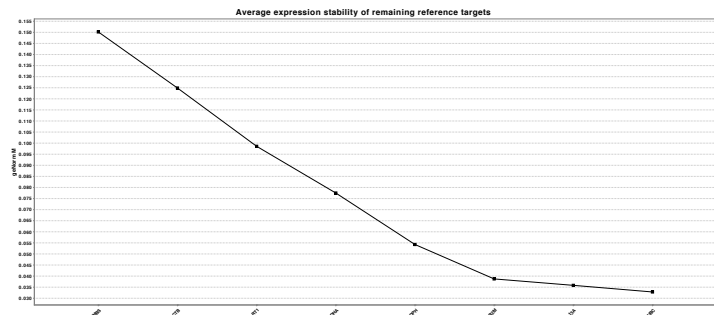


C PAX2 binding on TSS of 500 non-reg genes

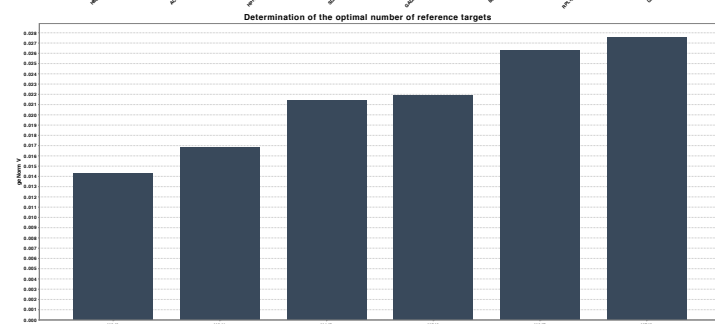


Supplementary Figure 7

A geNORM analysis of 8 reference genes in treatments of GRO-seq



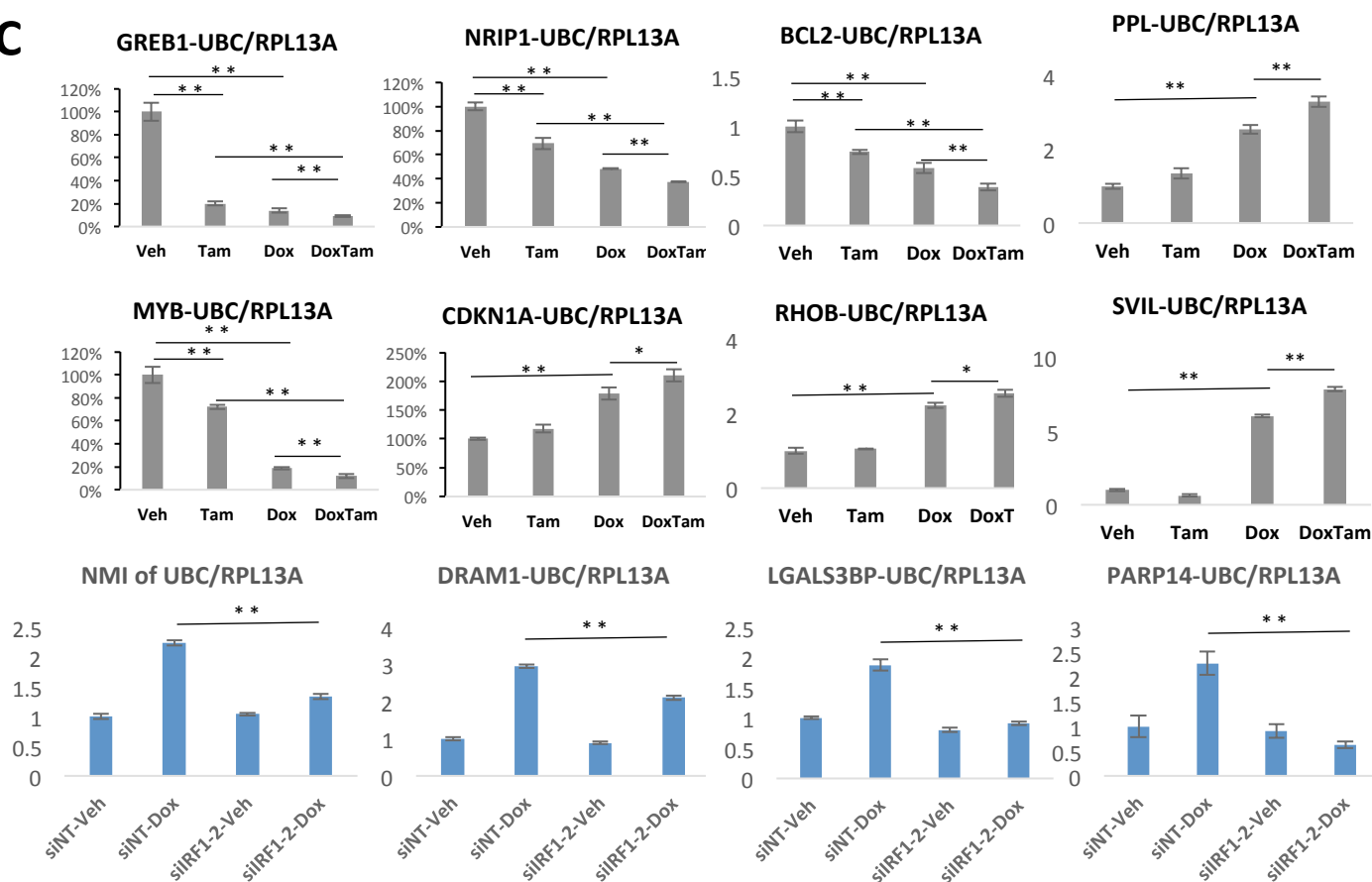
B



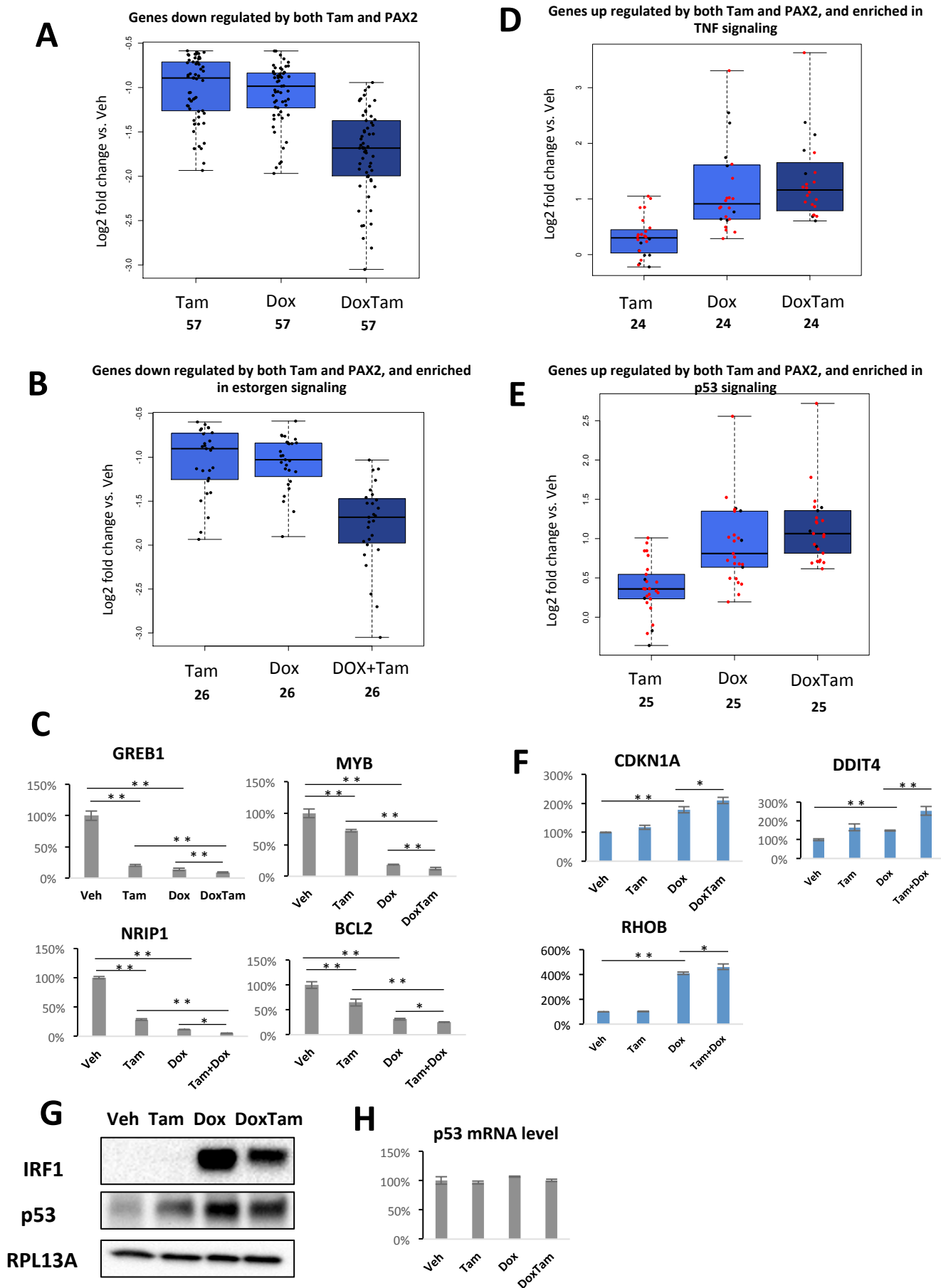
Optimal reference target selection

The optimal number of reference targets in this experimental situation is 2 (geNorm V < 0.15 when comparing a normalization factor based on the 2 or 3 most stable targets). As such, the optimal normalization factor can be calculated as the geometric mean of reference targets RPL13A and UBC.

C



Supplementary Figure 8



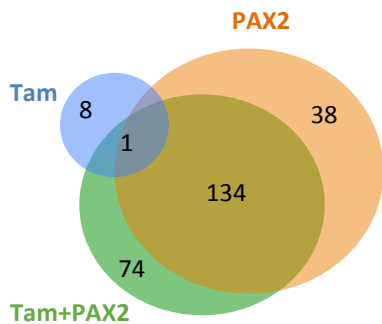
Supplementary Figure 9

A

Treatments	Up	Down
Tam	9	68
PAX2	173	245
Tam + PAX2	209	298

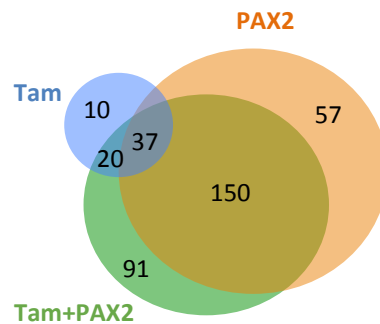
B

Up regulated



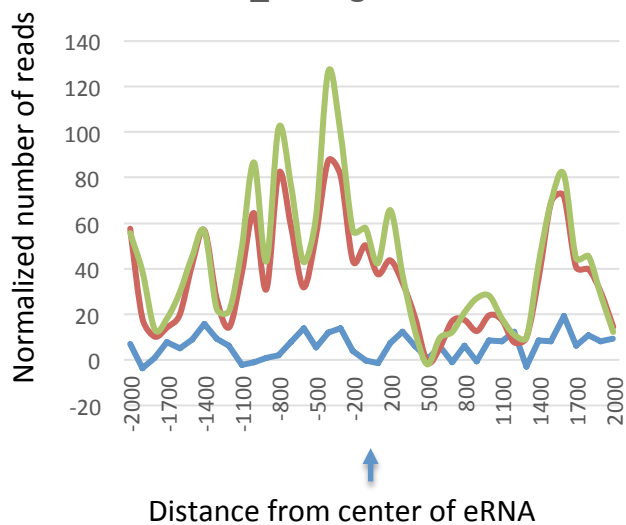
C

Down regulated



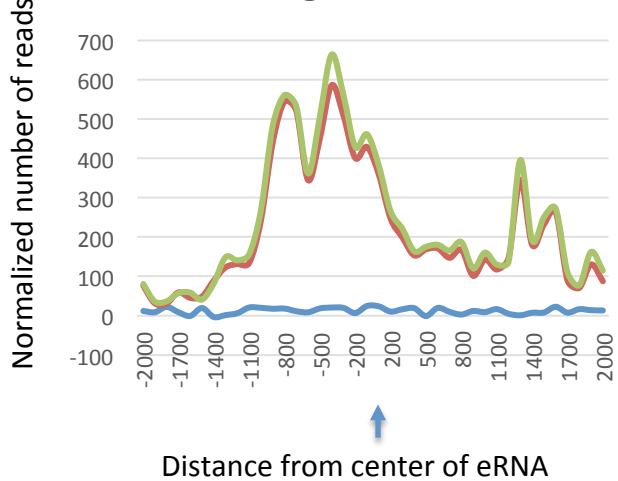
D

PAX2_TAM gained sites



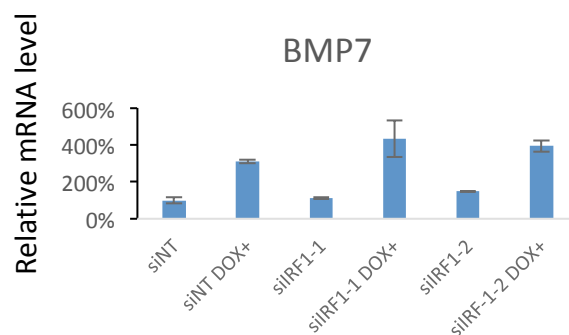
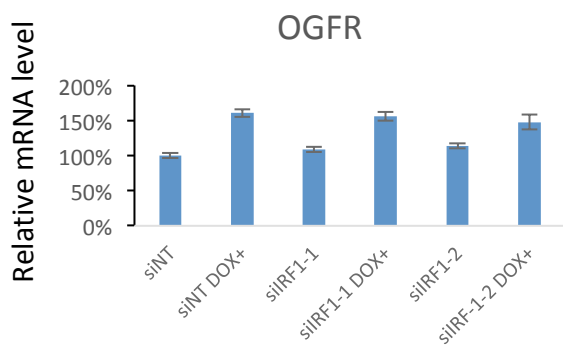
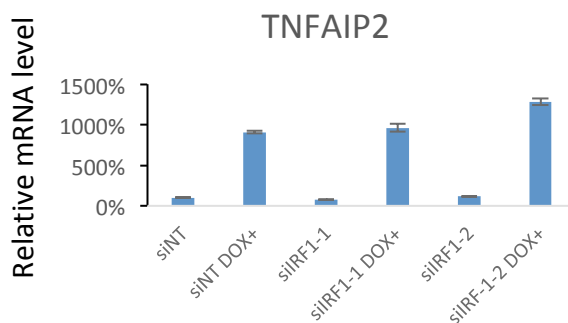
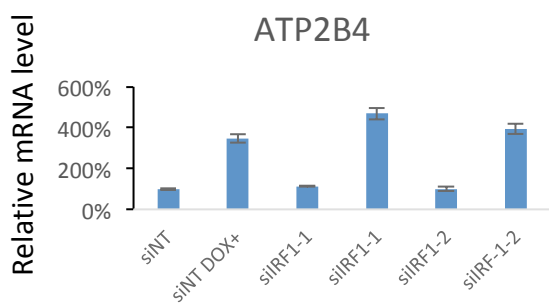
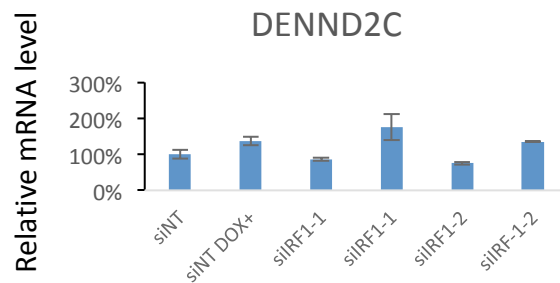
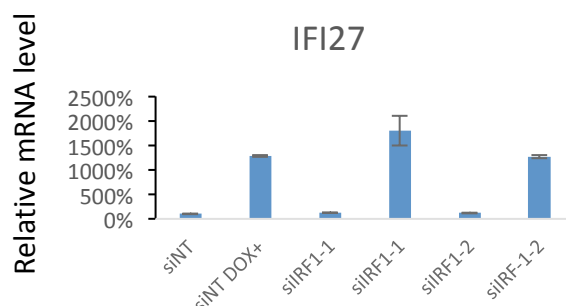
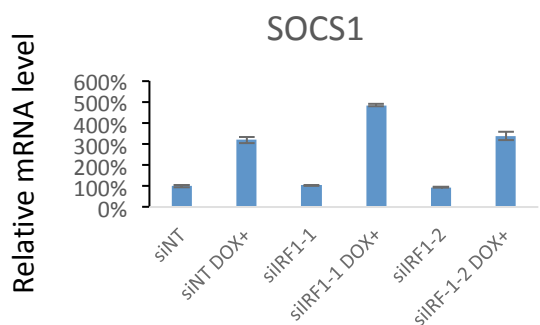
E

PAX2 gained sites

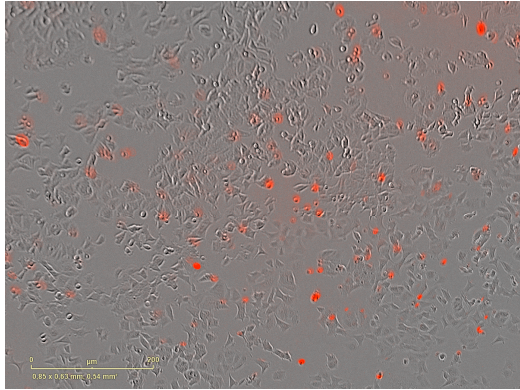


— Veh — Dox — DoxTam

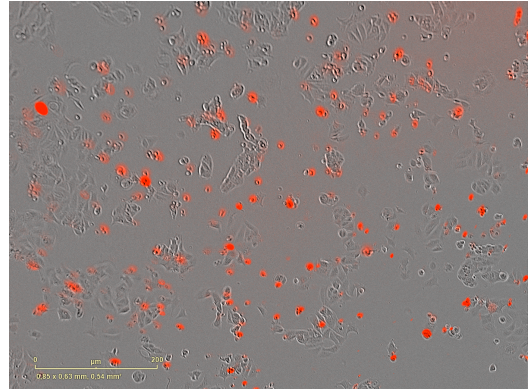
Supplementary Figure 10



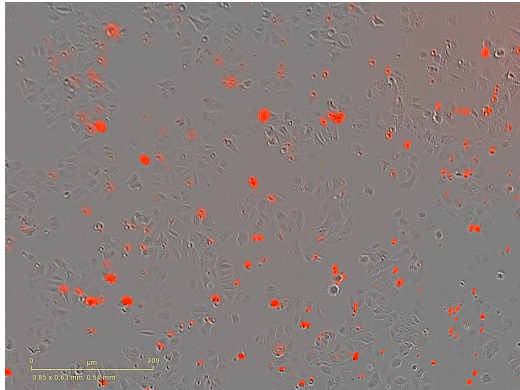
Supplementary Figure 11



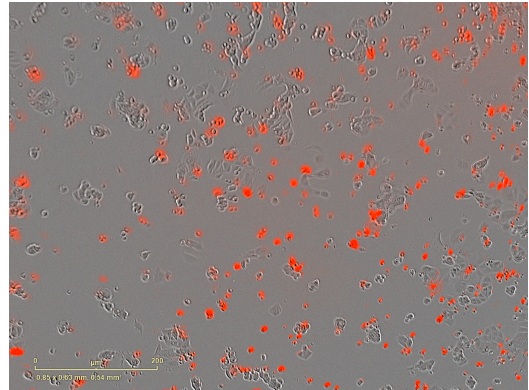
siNT-Veh



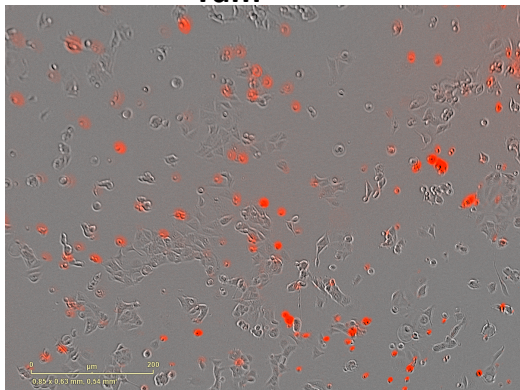
siNT-Dox



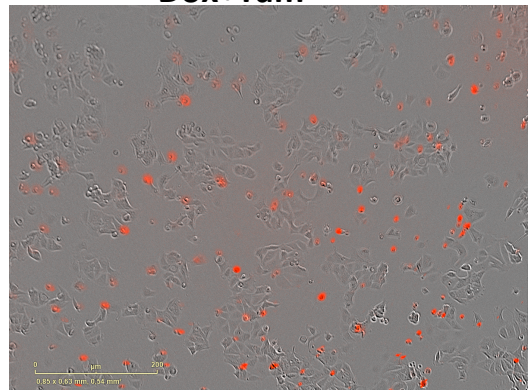
siNT-Tam



siNT-Dox+Tam



silRF1-1-Dox+Tam



silRF1-2-Dox+Tam

Supplementary Figure 12

