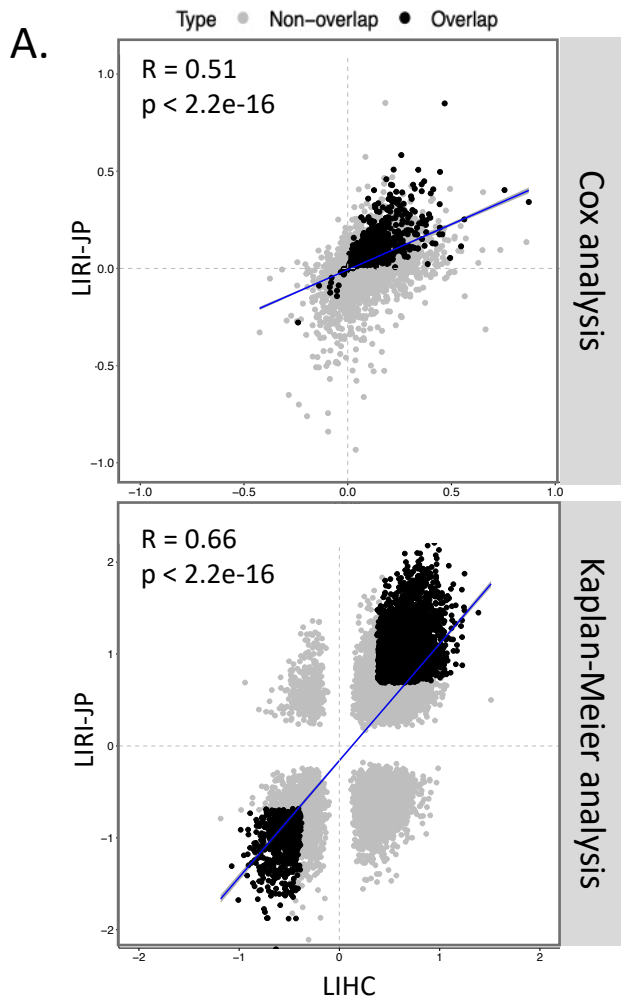
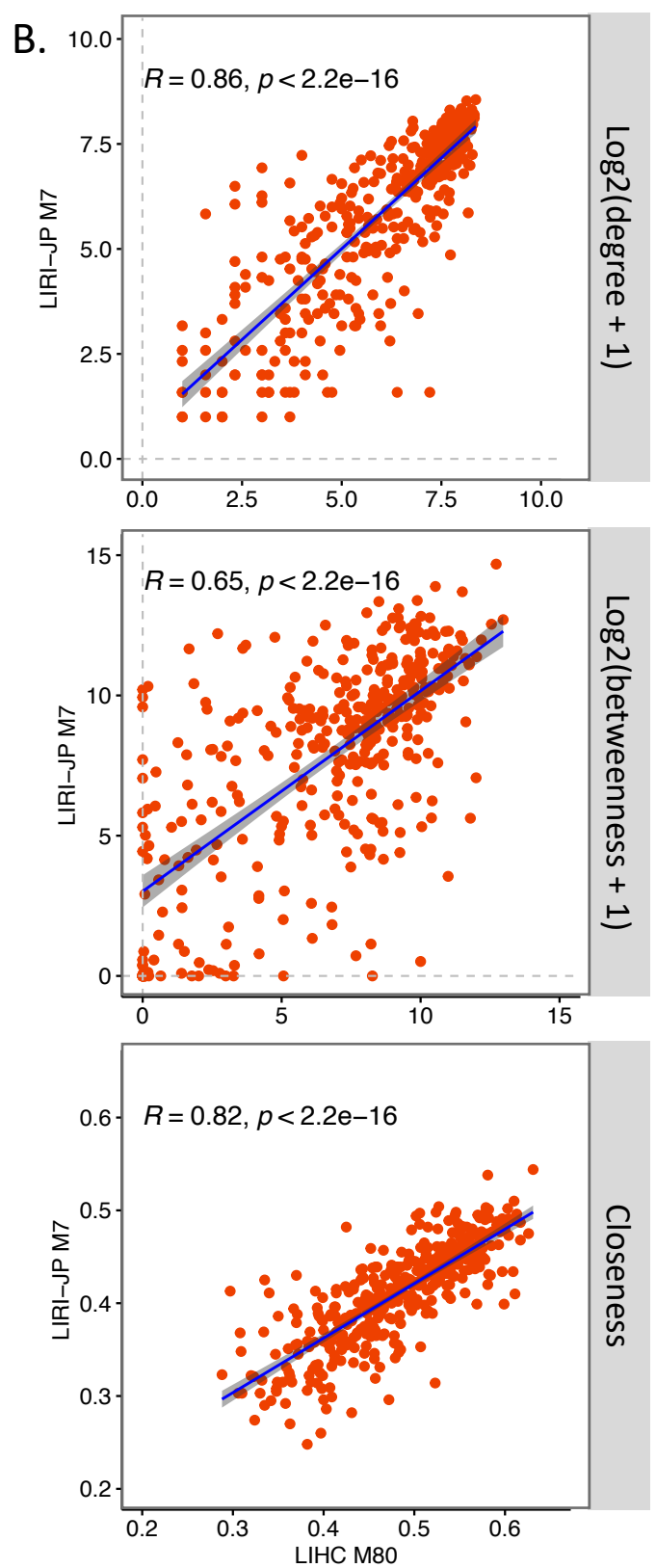


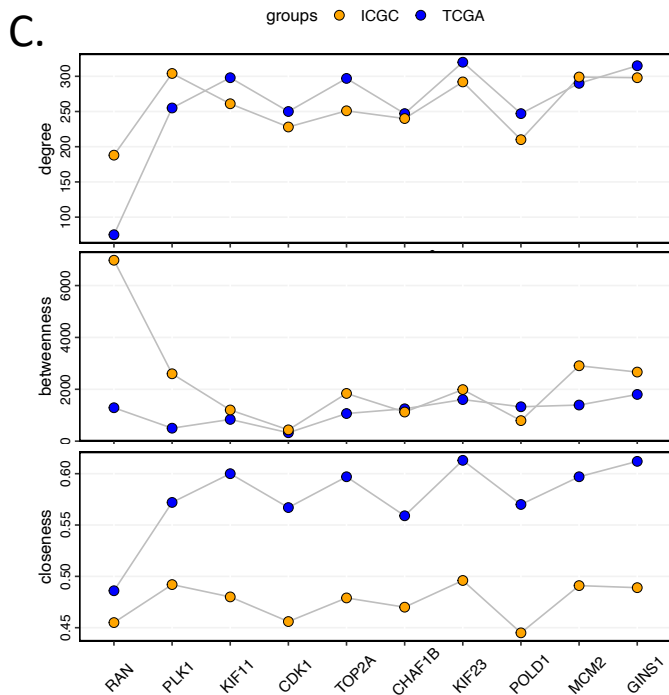
# Supplementary Figure 1.



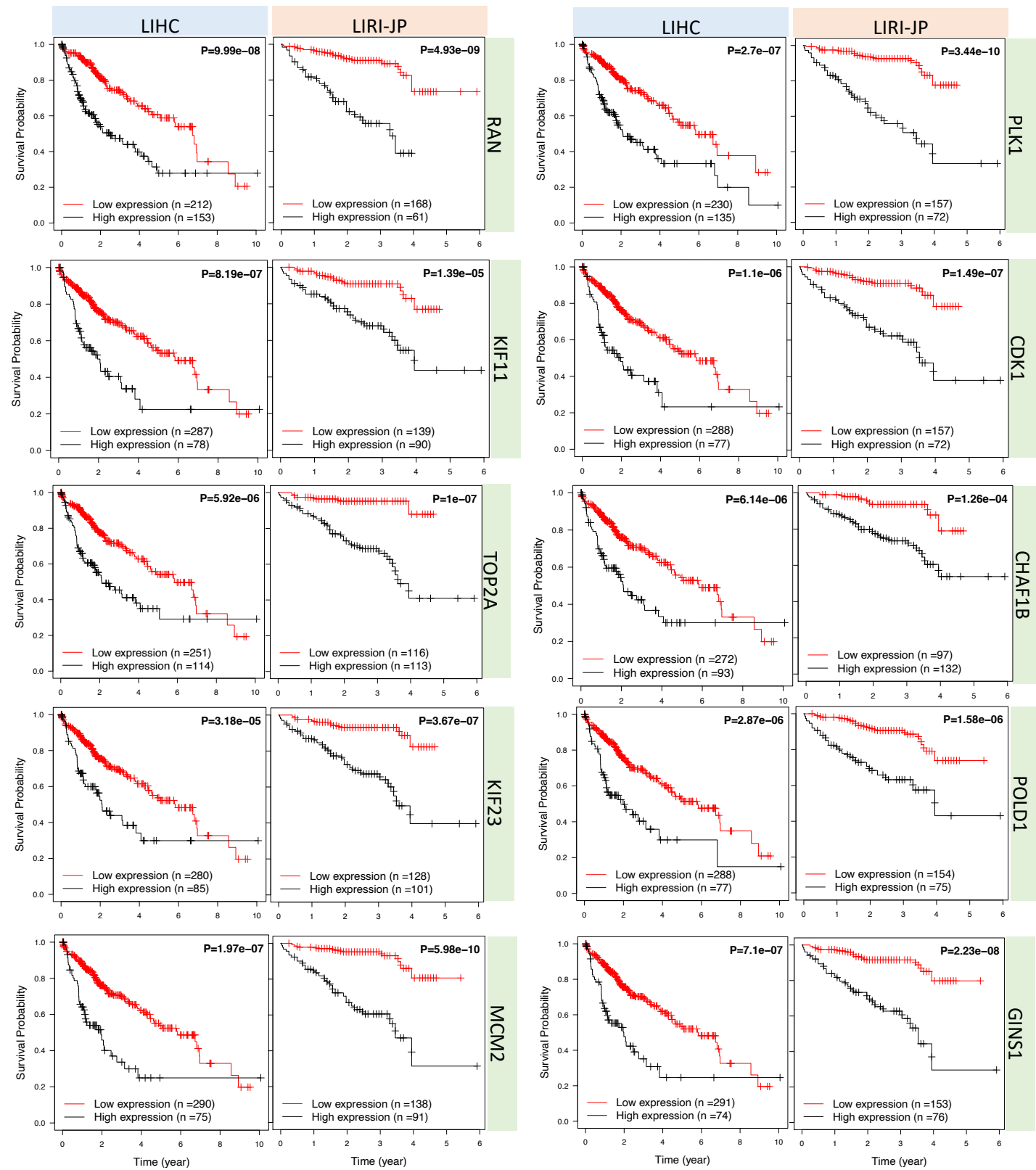
Correlation for Survival analysis



Topology correlation in two cohorts

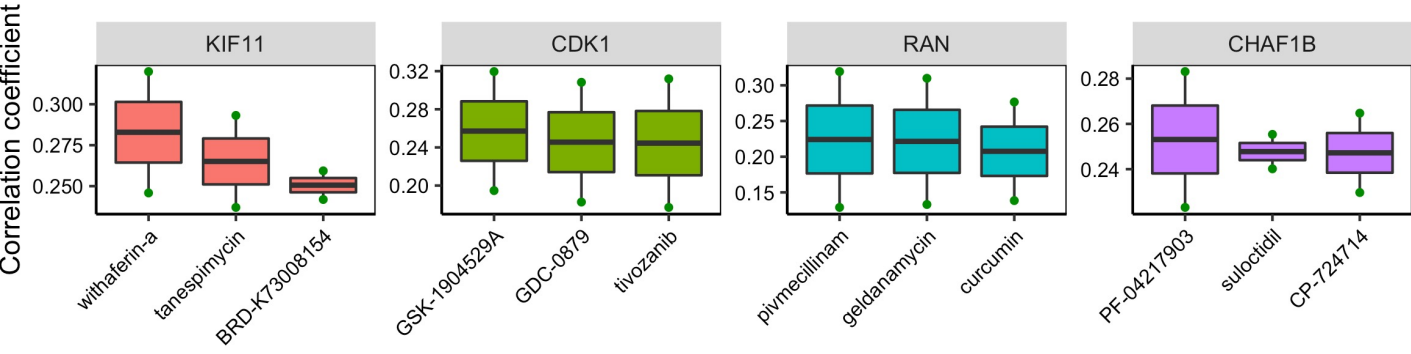


# Supplementary Figure 2. Kaplan Meier plots of target gene



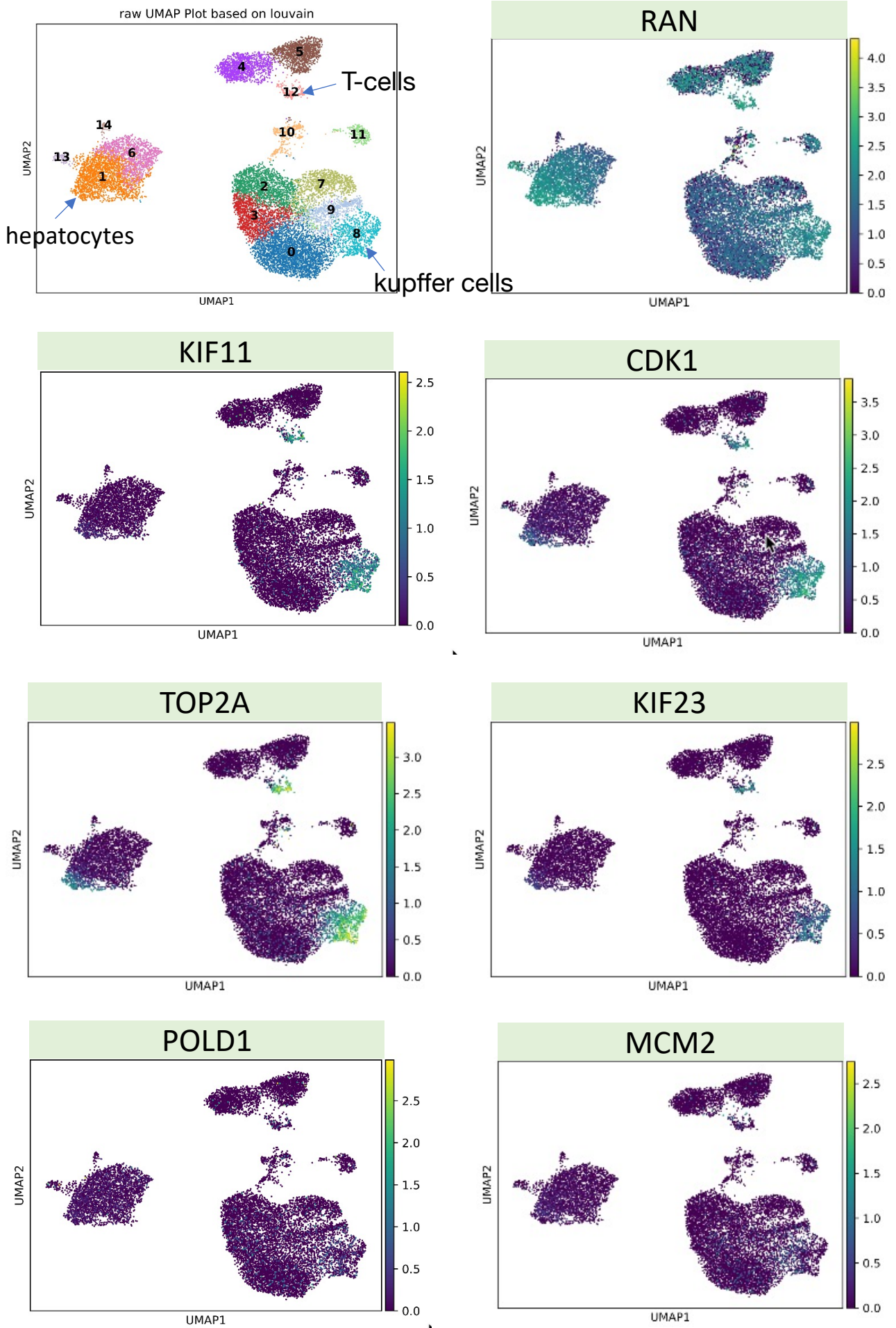
# Supplementary Figure 3.

## Top drug identification of *KIF11*, *CDK1*, *RAN*, *CHAF1B*.



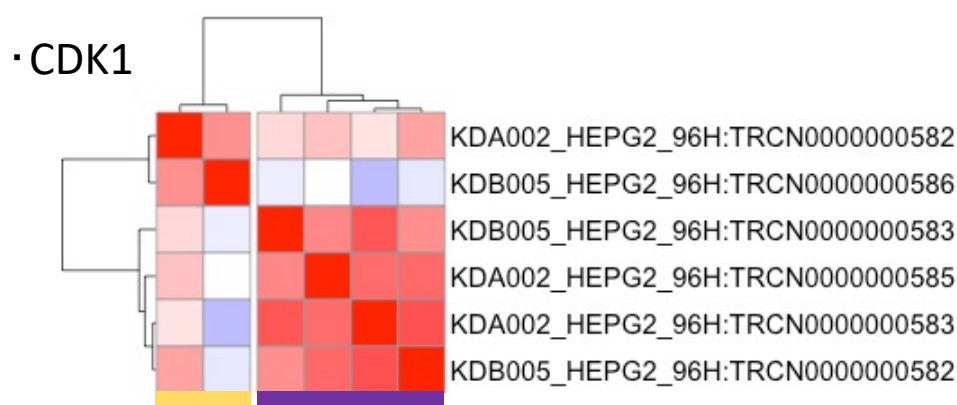
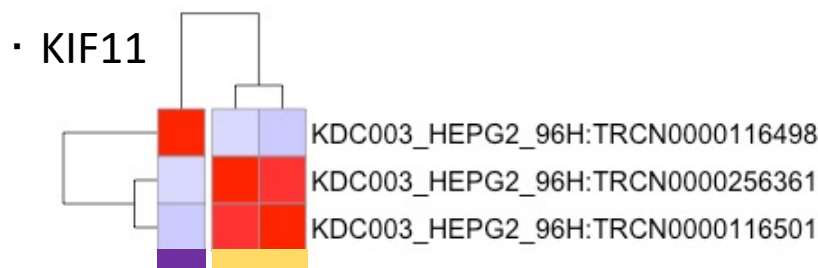
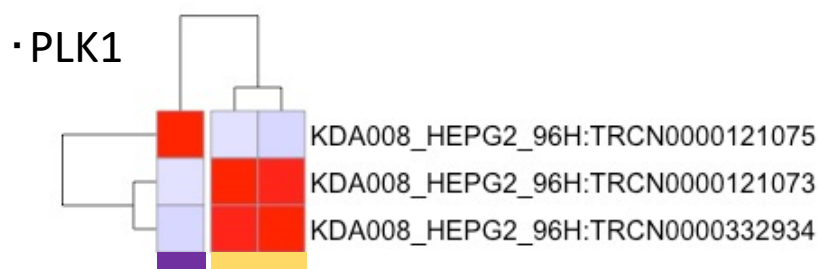
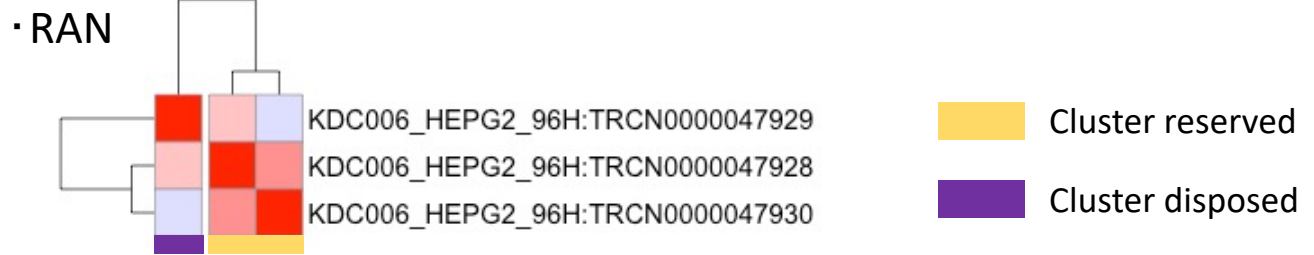
# Supplementary Figure 4.

The expression pattern of potential target genes in different cell types

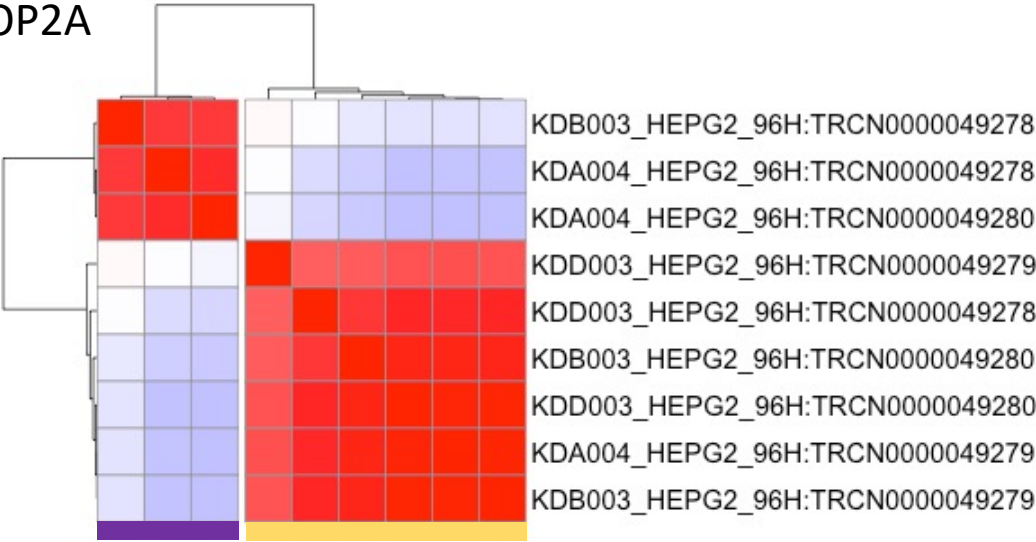


# Supplementary Figure 5.

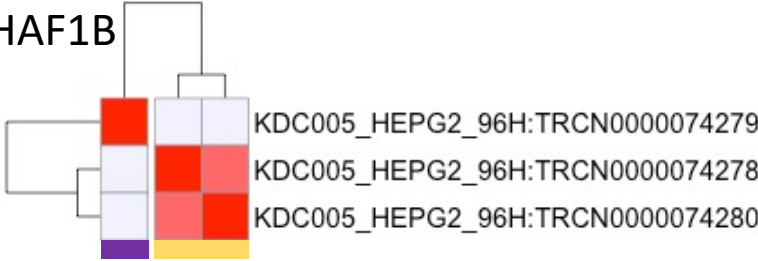
## Clustering analysis of shRNAs for target genes



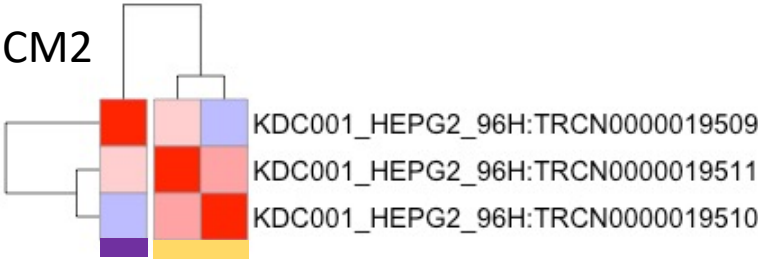
• TOP2A



• CHAF1B

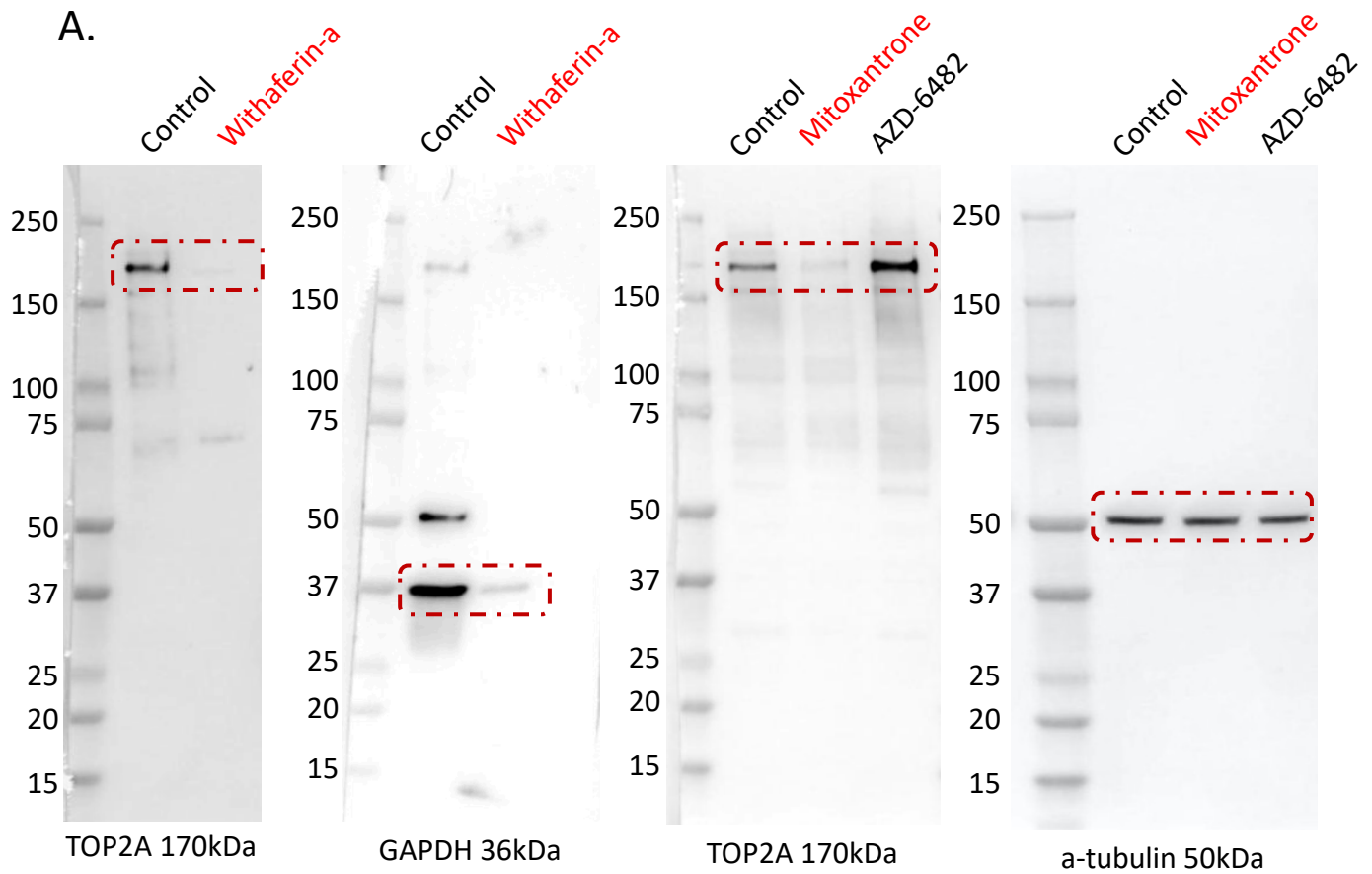


• MCM2



# Supplementary Figure 6.

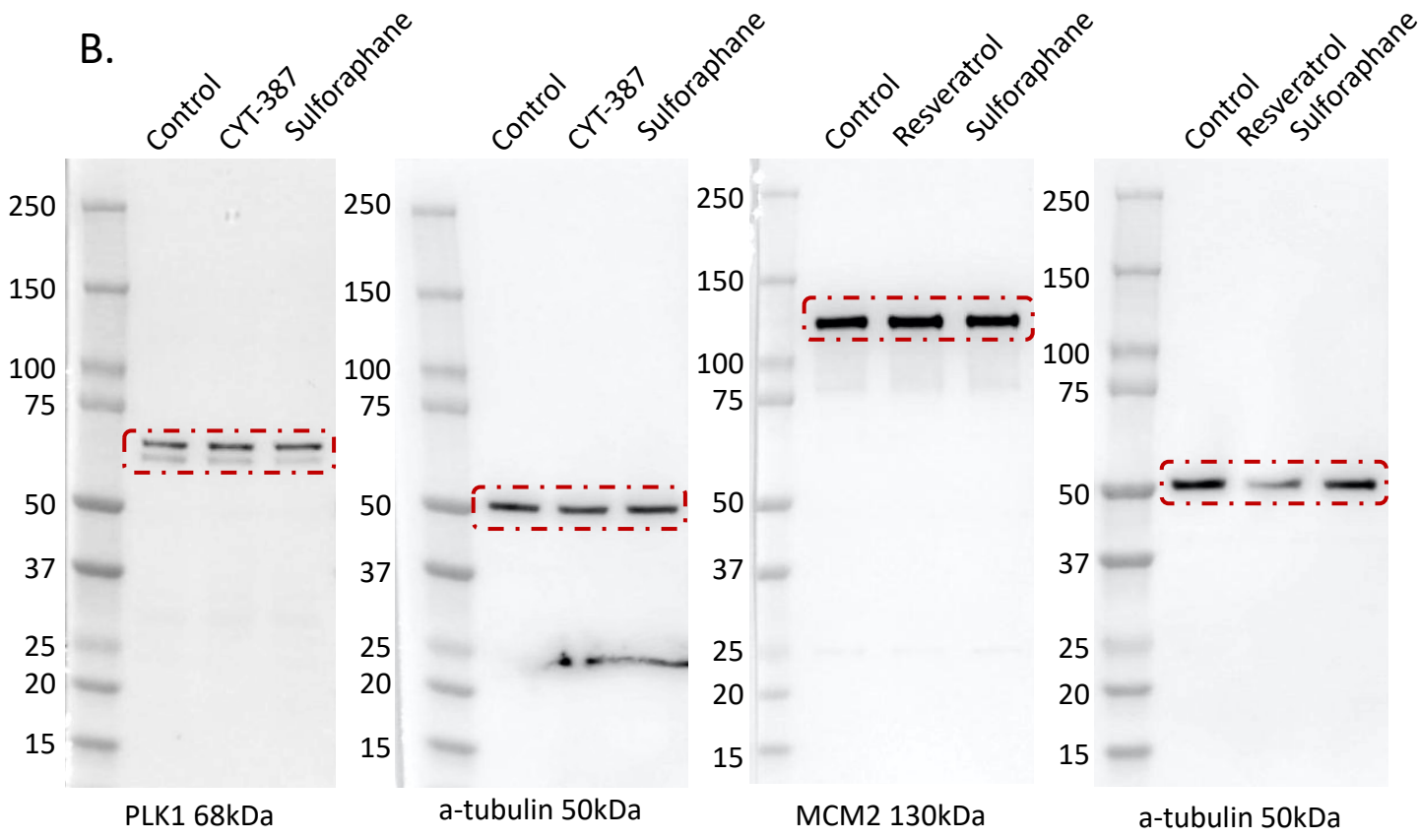
## Protein expression levels in in-vitro model



TOP2A (GAPDH)	Intensity ratio
Control	1
Withaferin-a	0.32

TOP2A (A-tubulin)	Intensity ratio
Control	1
Mitoxantrone	0.43
AZD-6482	2.57

B.



PLK1	Intensity ratio
Control	1
CYT-387	1.21
Sulforaphane	0.98

MCM2	Intensity ratio
Control	1
Resveratrol	2.44
Sulforaphane	1.13