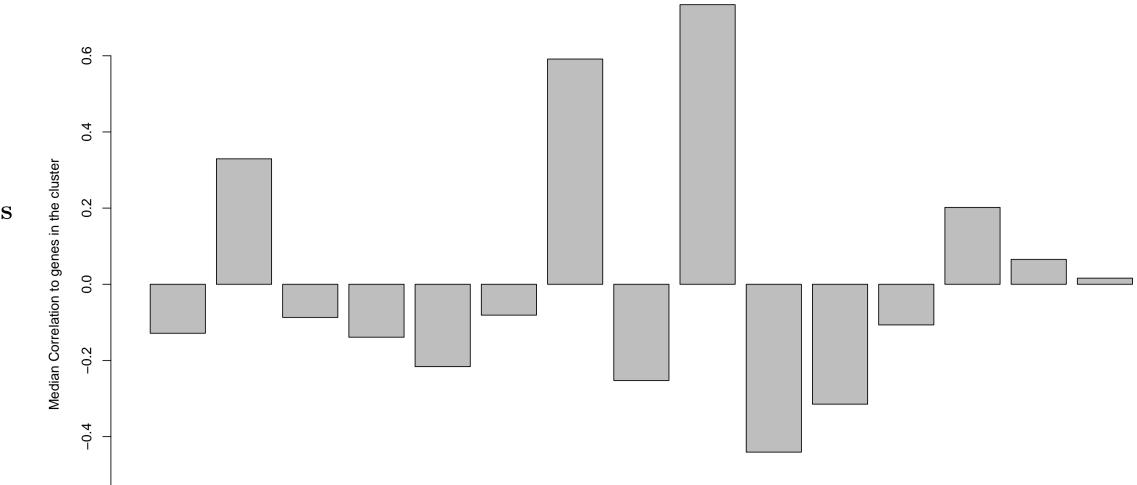
How similar is this cluster to the other clusters?

## Genes in the cluster along with the pathways as annotated by experts Expert Annotation Treatment Pathway Regulation Type TGFBR1\_K232R Canonical TGFbeta Inhibitor

TGFBR1\_WT.2 Canonical TGFbeta Activator

Canonical WNT

DVL3\_WT



Top 5 gene	s negatively	correlated	to the	cluster

Expert Annotation					
	Treatment	Pathway	Regulation Type	Mean Correlation	Standard Deviation
	SMO_WT.1	Hedgehog	Activator	-0.58	0.06
	DDIT3_WT.2	Canonical ER Stress/UPR	Activator	-0.51	0.04
	PRKACA_WT.2	Canonical PKA	Activator	-0.47	0.16
	NFKBIA_WT	Canonical NFkB	Inhibitor	-0.47	0.21
	DIABLO_WT	Canonical Apoptosis	Inhibitor	-0.43	0.10

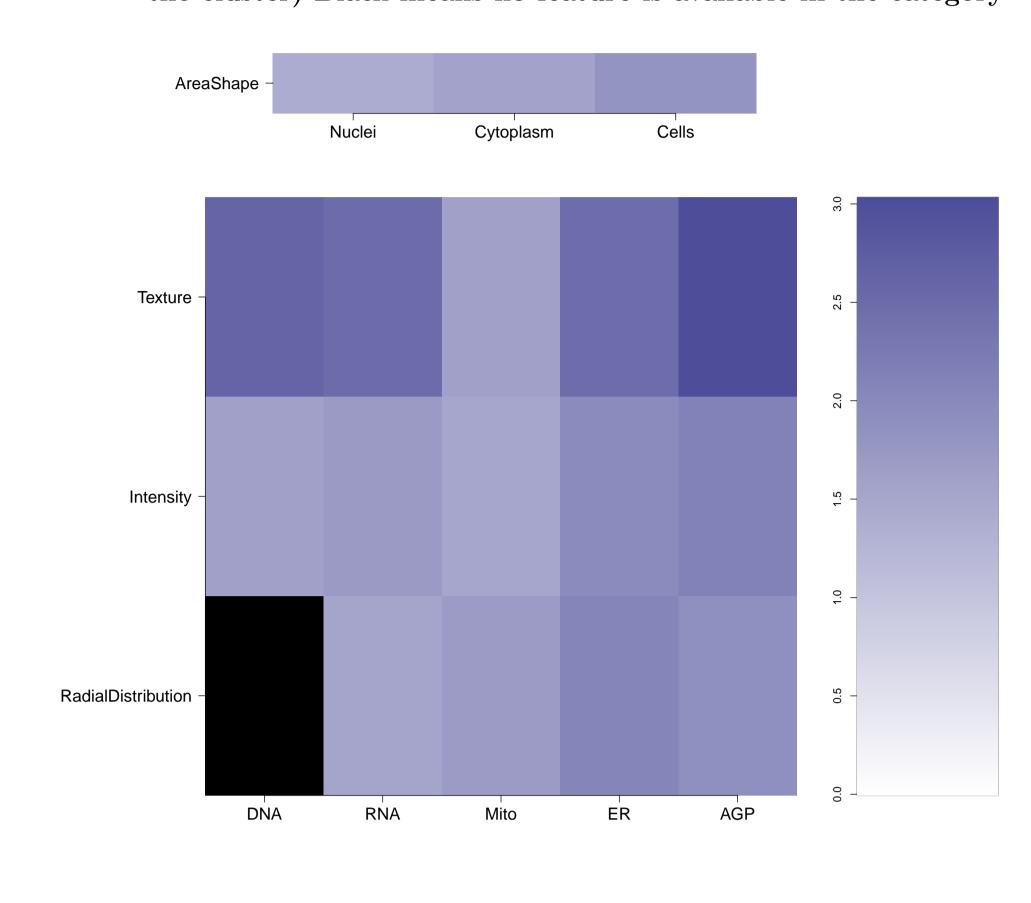
AKT1\_E17K AKT1S1\_WT.1 BRAF\_WT.1 CCND1\_WT.1 CDKN1A\_WT CEBPA\_WT.1 CSNK1A1\_WT.3 CXXC4\_WT DVL3\_WT GLI1\_WT MAP3K2\_WT.1 MYD88\_L265P PRKCZ\_K281R RBPJ\_WT.1 WWTR1\_WT AKT3\_E17K AKT1S1\_WT.2 BRAF\_WT.2 CCND1\_WT.2 HRAS\_G12V CEBPA\_WT.2 MAPKAP1\_WT STK3\_WT.1 TGFBR1\_K232R PRKACA\_WT.1 MAP3K2\_WT.2 MYD88\_WT PRKCZ\_WT.1 RBPJ\_WT.2 YAP1\_WT.1 AKT3\_WT.2 ATF4\_WT.2 MOS\_WT.1 E2F1\_WT KRAS\_G12V JUN\_WT.1 SGK3\_WT.2 STK3\_WT.2 STK3\_WT.2 TGFBR1\_WT.2 PRKACA\_WT.2 TRAF5\_WT SDHA\_WT PRKCZ\_WT.2 SMAD3\_WT.1 YAP1\_WT.2 PRKACA\_WT.2 TRAF5\_WT SDHA\_WT PRKCZ\_WT.2 SMAD3\_WT.1 YAP1\_WT.3 PRKACA\_WT.2 TRAF1\_WT.1 RAF1\_WT.1 RAF1\_WT.1 MAP2K4\_WT.1 MAP3K5\_WT.1 MAP3K5\_WT.1

What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the category

Activator

Which individual morphological features are distinguishing in the cluster relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

How strongly are genes within the cluster correlated?



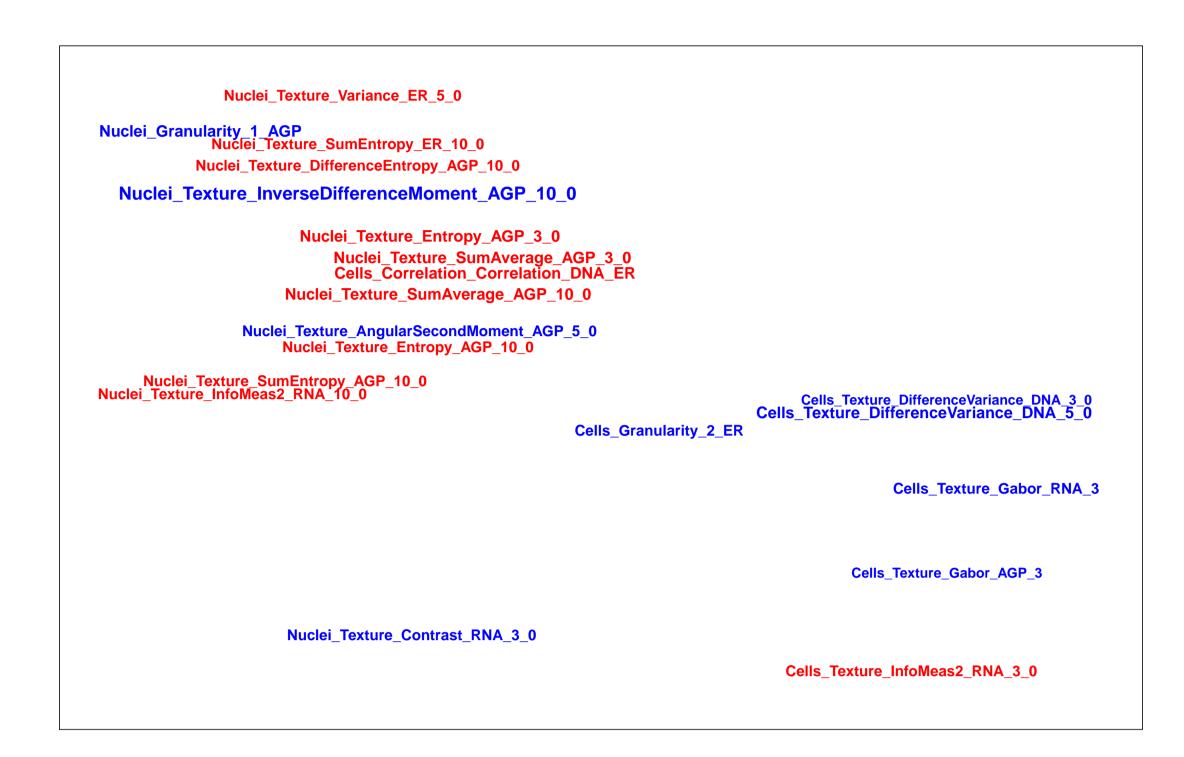
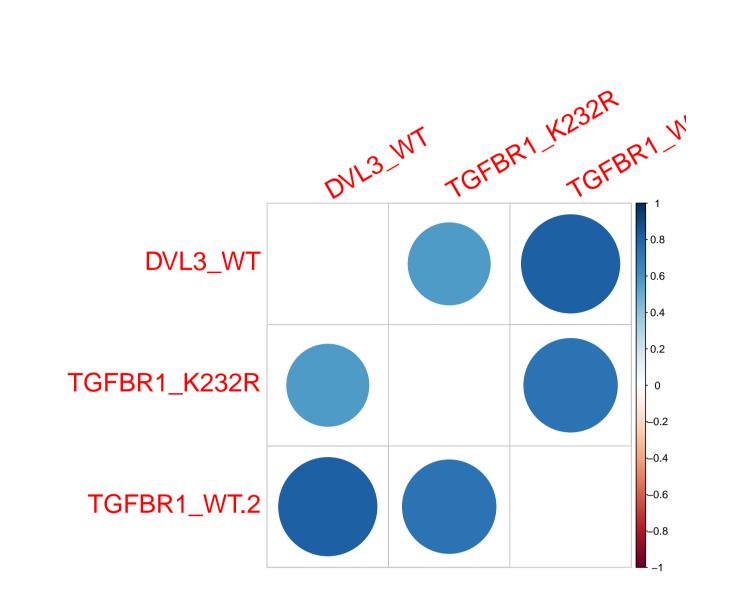
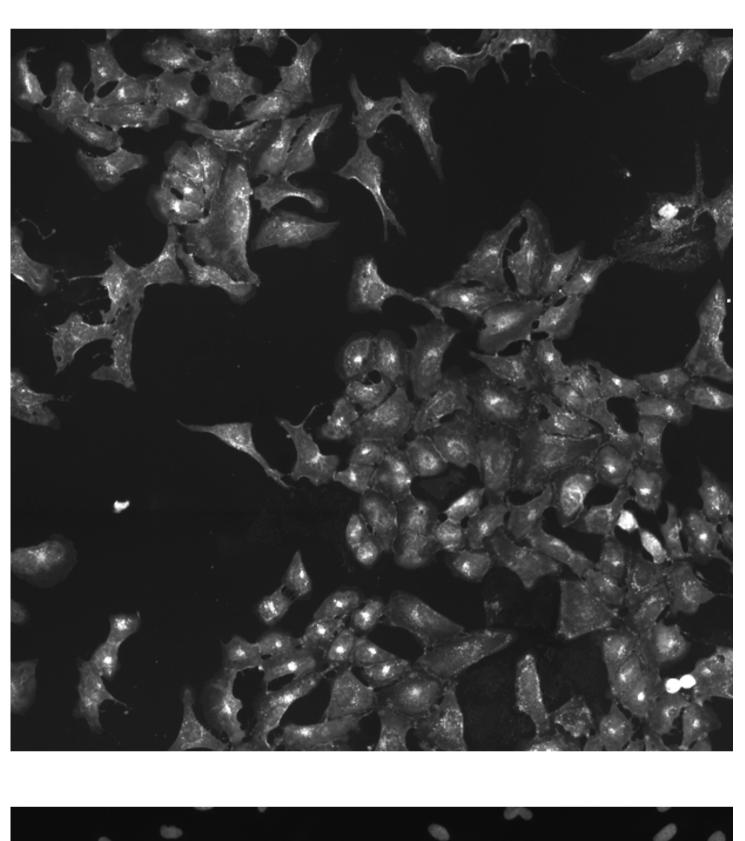


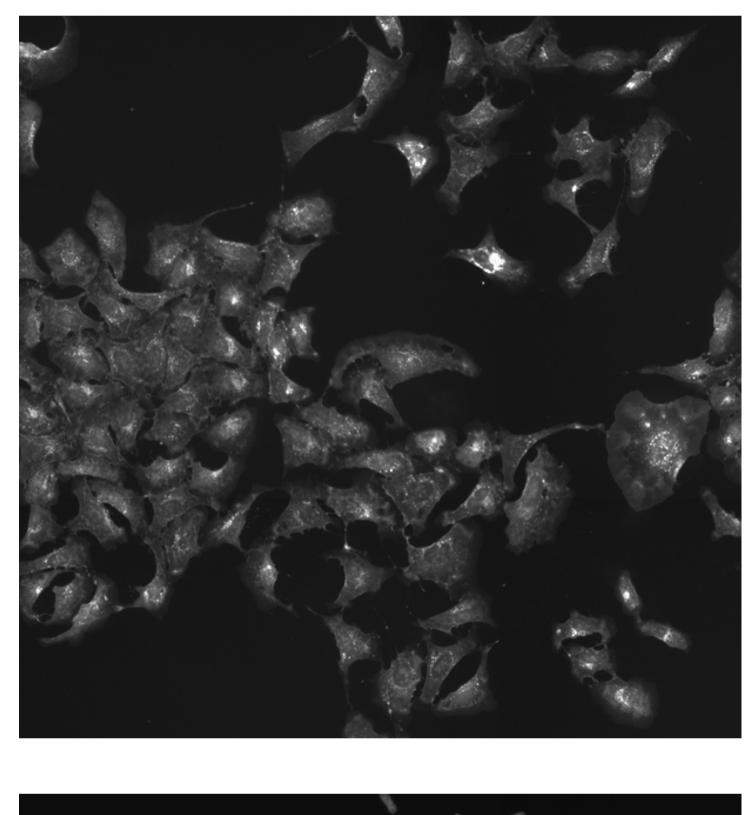
Plate: 41744 - Genes in the Cluster (Channels are sorted based on their dominance in the grid plot)



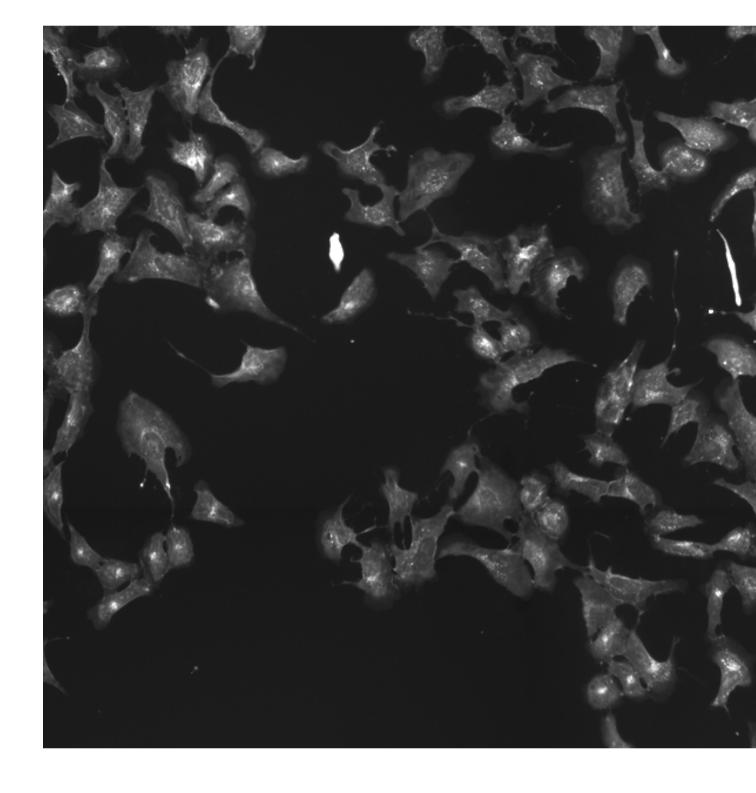
Empty



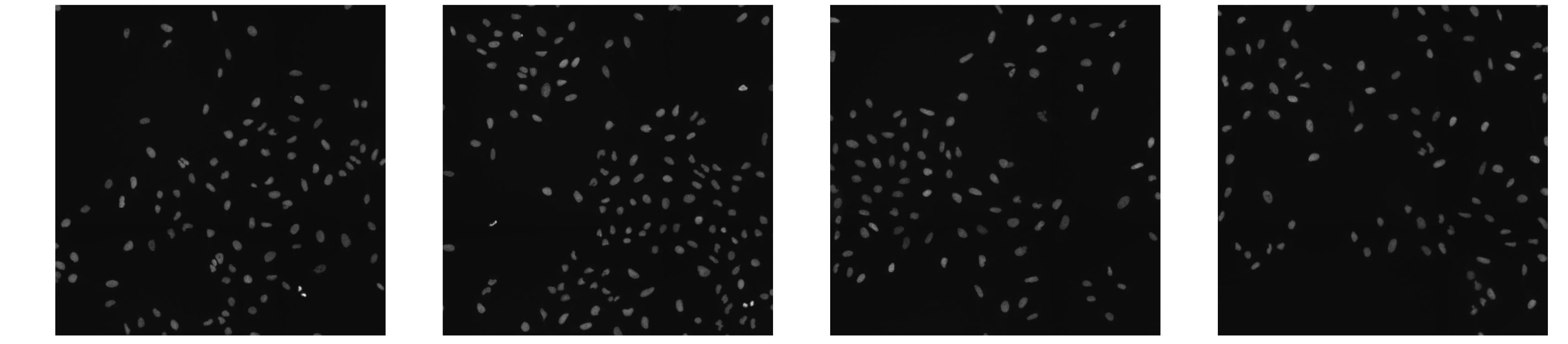
 $DVL3_WT$ 

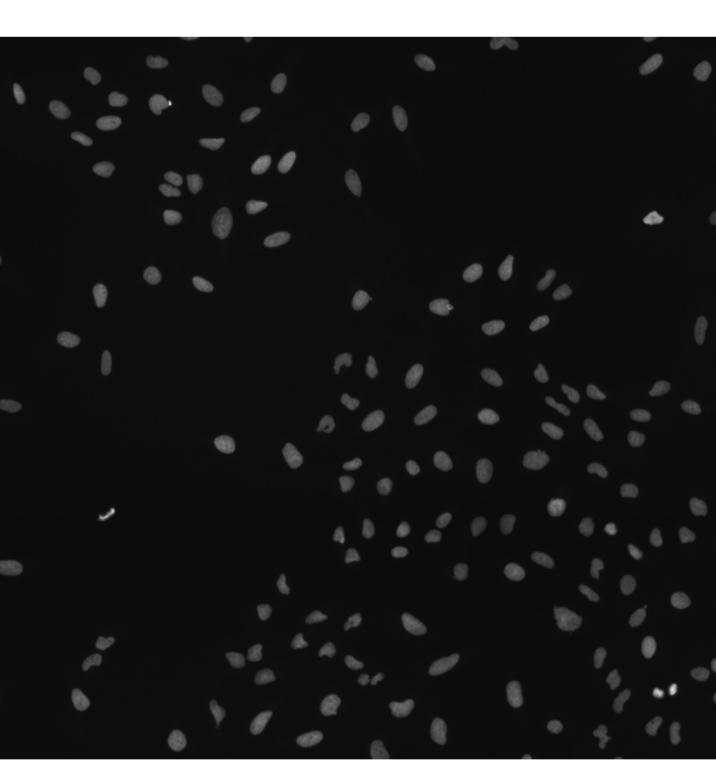


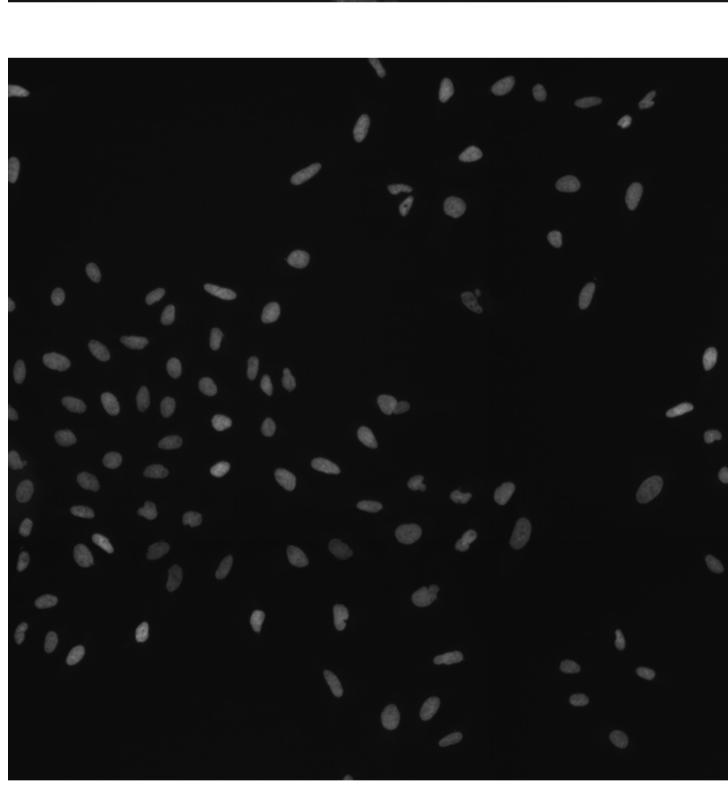
TGFBR1\_K232R

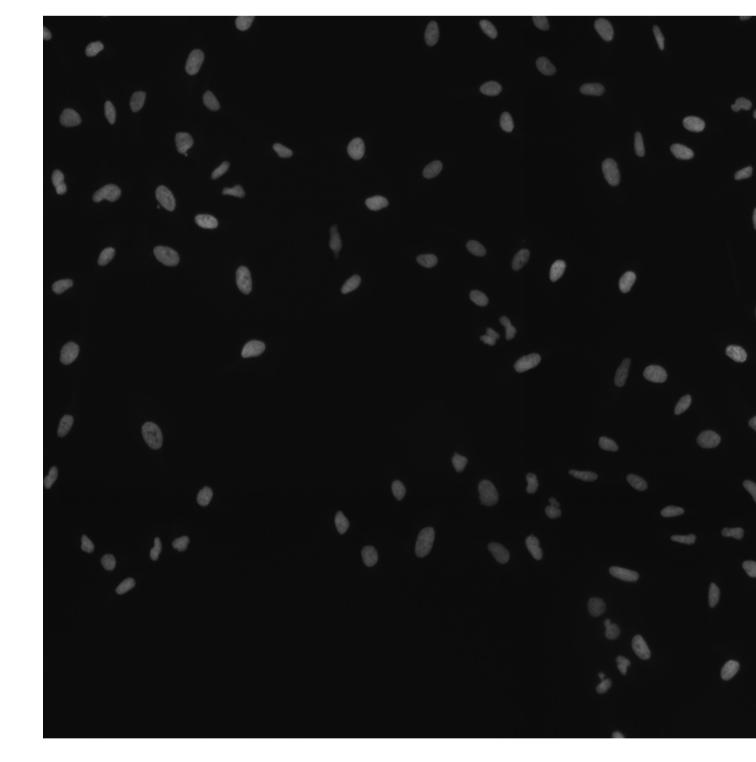


 $TGFBR1_WT.2$ 









Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure  (95th DMSO replicate correlation is 0.52)  Tables contain data for individual genes  Compound signature to the gene clusters in cluster using L1000 profiling ± standard deviation;  Tables contain data for individual genes  Compound rank when scored against genes in cluster using L1000 profiling ± standard deviation;  Tables contain data for individual genes  Compound rank when scored against genes in cluster using L1000 profiling ± standard deviation;  Tables contain data for individual genes  Chemical structure  Alexandard deviation correlation between compound signature to the gene clusters in cluster using L1000 profiling ± standard deviation;  Tables contain data for individual genes	Common distinguishing feature categories in the compound and untreated samples. Black means a mismatch; i.e. active (= mgn   the compound was tested; assays in
BRD-K29073962-001-01-3 PubChem CID : 54641201	NA (in 1 replicates) $\frac{0.48 \pm 0.12}{\frac{10.413 \text{ NA}}{7 \text{ GPBLLICORN } 5500}}{\frac{10.48 \text{ NA}}{7 \text{ GPBLLICORN } 5500}}{\frac{10.48 \text{ NA}}{10.40}}{\frac{10.48 \text{ NA}}{10.40}} = \frac{10.48 \pm 0.12}{10.40}$	Testine

