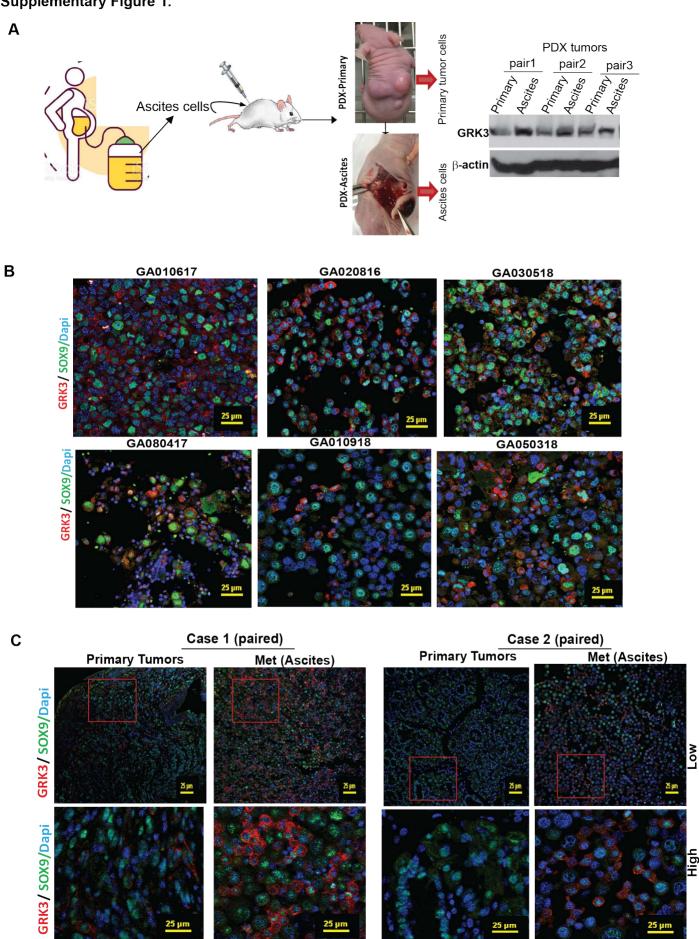
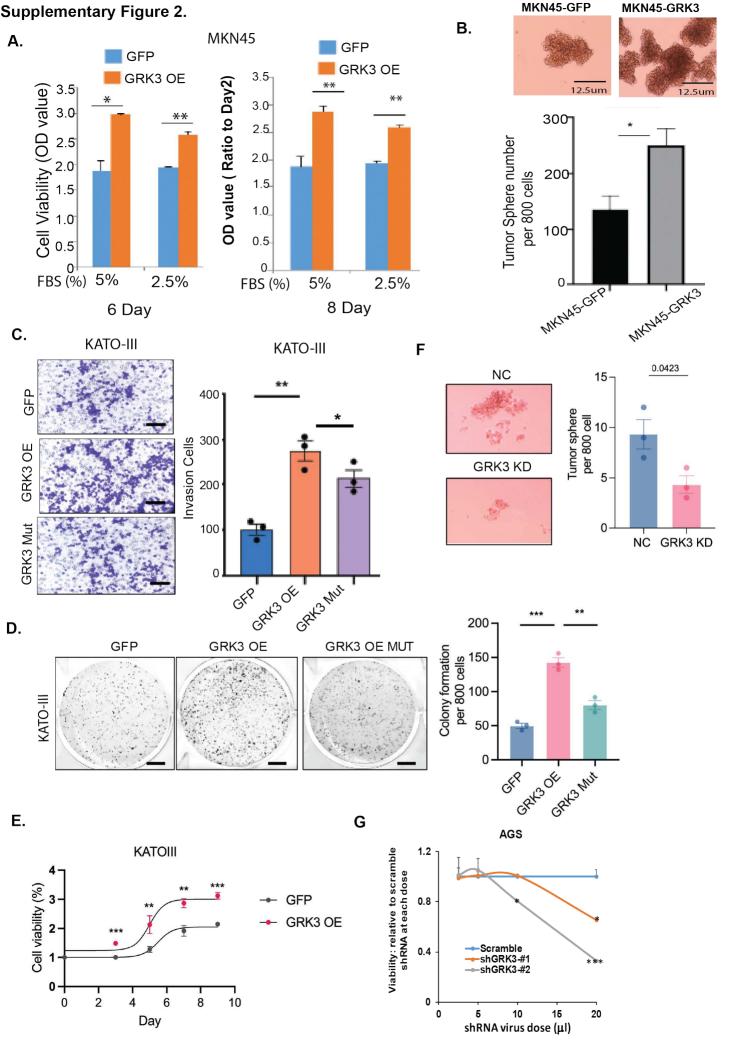
Supplementary Figure 1.





Supplementary Figure 3.

Α.

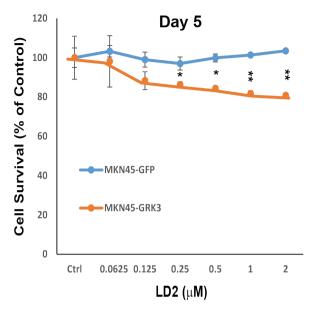
Schematic Illustration of GRK3 Screen GRK3 in buffer (5uL) Diluted library (2uL) Incubate 0.5h Substrate mix (3uL) Incubate 1h **Developing reagent** (5uL) Incubate 1h Stop reagent (5uL) Incubate 10min Read on plate reader

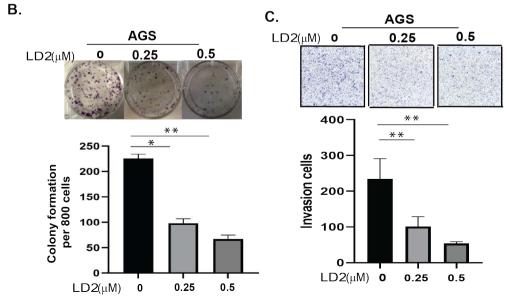
В. **GRK3** protein+ compound library ATP, peptiide substrate, Z-LYTE buffer **Effective GRK3 DMSO** or ineffective **inhibitors** compounds FRET FRET Developing Reagent FRET

Hits of GRK3 inhibitors

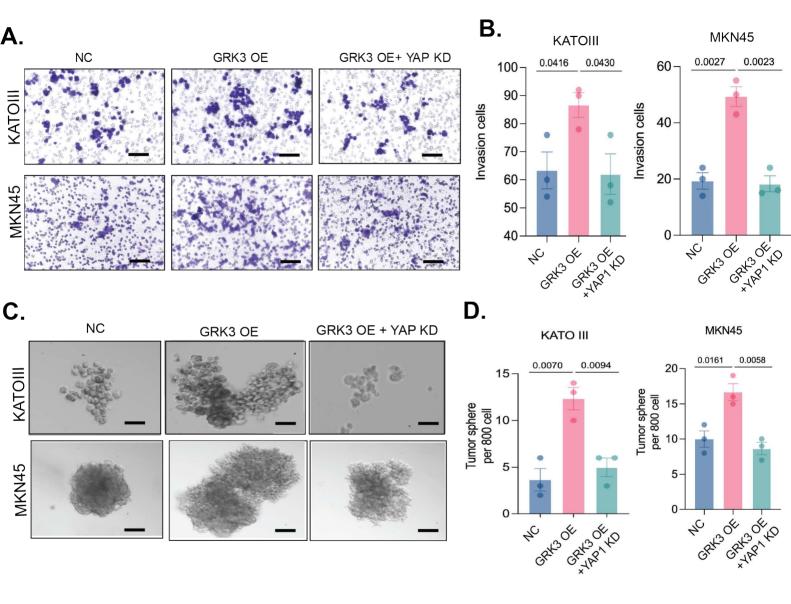
Supplementary Figure 4.



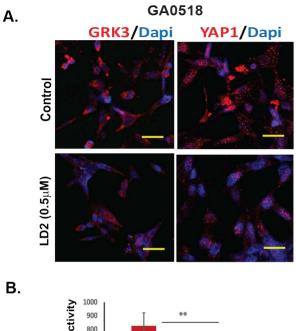


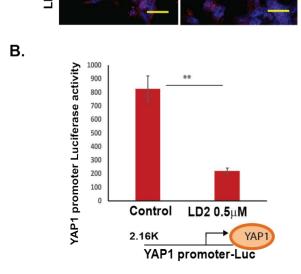


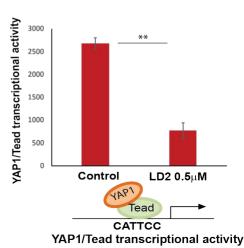
Supplementary Figure 5.



Supplementary Figure 6.

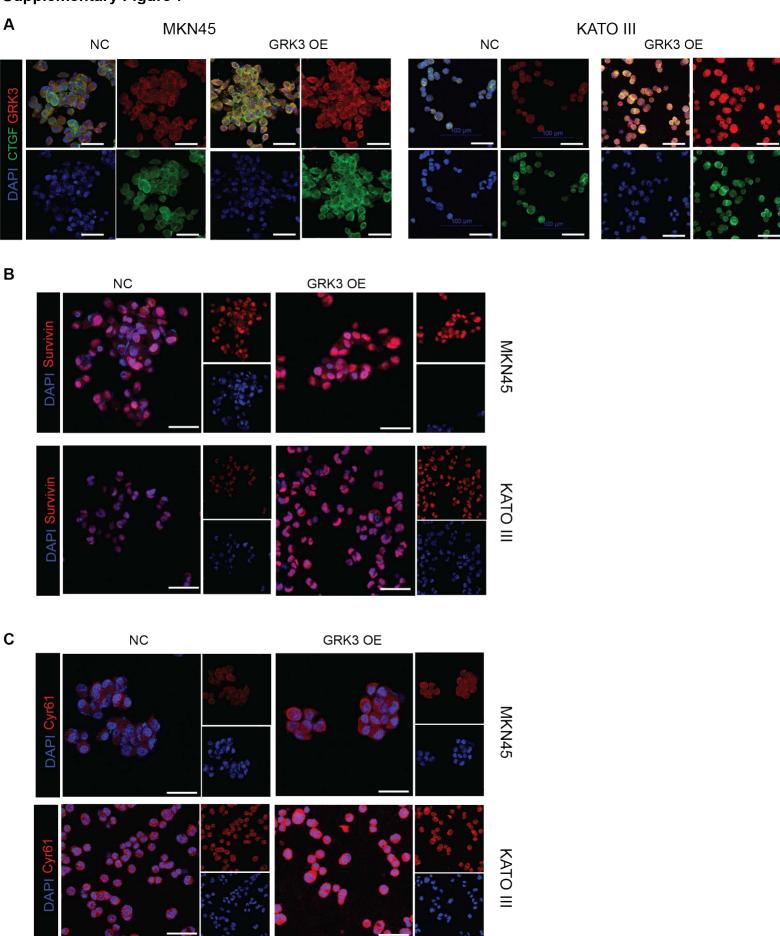




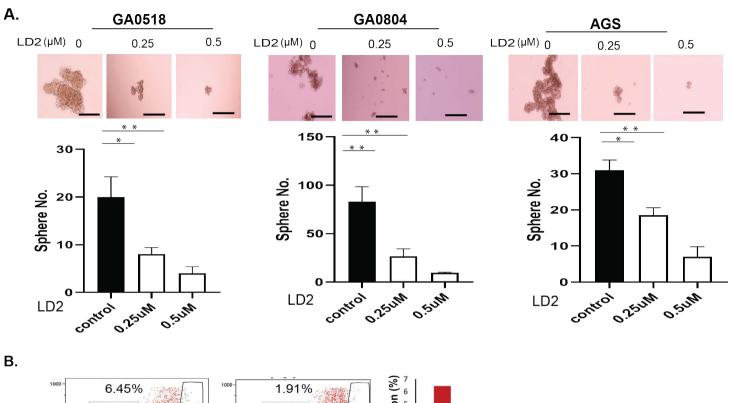


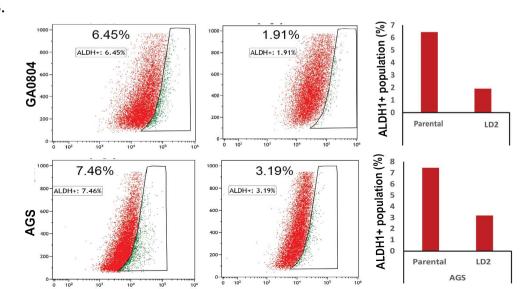
C.

Supplementary Figure 7



Supplementary Figure 8.





Supplementary Figure 9.

A. NC GRK3 OE GRK3 OE+LD2

