

Supplemental Figures

Figure S1. Eribulin dose response curve in MDA-MB-231 and MCF7 cell lines (crystal violet staining quantification) and MCF10A cells (cell-counting). Representative images of MDA-MB-231, MCF7 and MCF10A cells following treatment with indicated dose of eribulin for 7 days. Images taken at 10x magnification.

Figure S2. Heat maps **(A)** and Volcano plots **(B)** representing the proteins that were significantly over-and/or down secreted in the second and third biological replicates.

Figure S3. PCA analysis **(A)** and heat maps of hierarchical clustering analysis **(B)** of the different MTA treatments in the second and third biological replicates.

Figure S4. (A) Representative images of 3D cell-cultured MDA-MB-231 and MCF7 cells following treatment with indicated dose of eribulin for 7 days. Images taken at 10x magnification. **(B)** Representative confocal images of Actin (red) immunofluorescence in 3D cell-cultured MDA-MB-231 and MCF7 cells following treatment with vehicle and 1.5nM eribulin for 7 days. Nuclei were stained with DAPI.

Figure S5. (A) WB analysis of GDF15 protein in siCTRL and siGDF15 cells in different breast cancer cell lines. Normalization was done with Actin as a loading control. **(B)** Representative image of crystal violet staining in siCTRL and siGDF15 BT549 cells treated for 7 days with vehicle and 1.5nM eribulin treatment. **(C)** Graphs of cell viability quantification using CellTiter staining in MDA-MB-231, MCF7 and BT549 cell lines treated for 7 days with vehicle, eribulin, eribulin + IgG and eribulin + anti-GDF15 Ab.

Figure S6. WB analysis of GDF15 protein in cell lysates and secretomes collected after 72 hours of treatment with different drugs: eribulin, metformin, doxorubicin, carboplatin and paclitaxel.

Figure S1

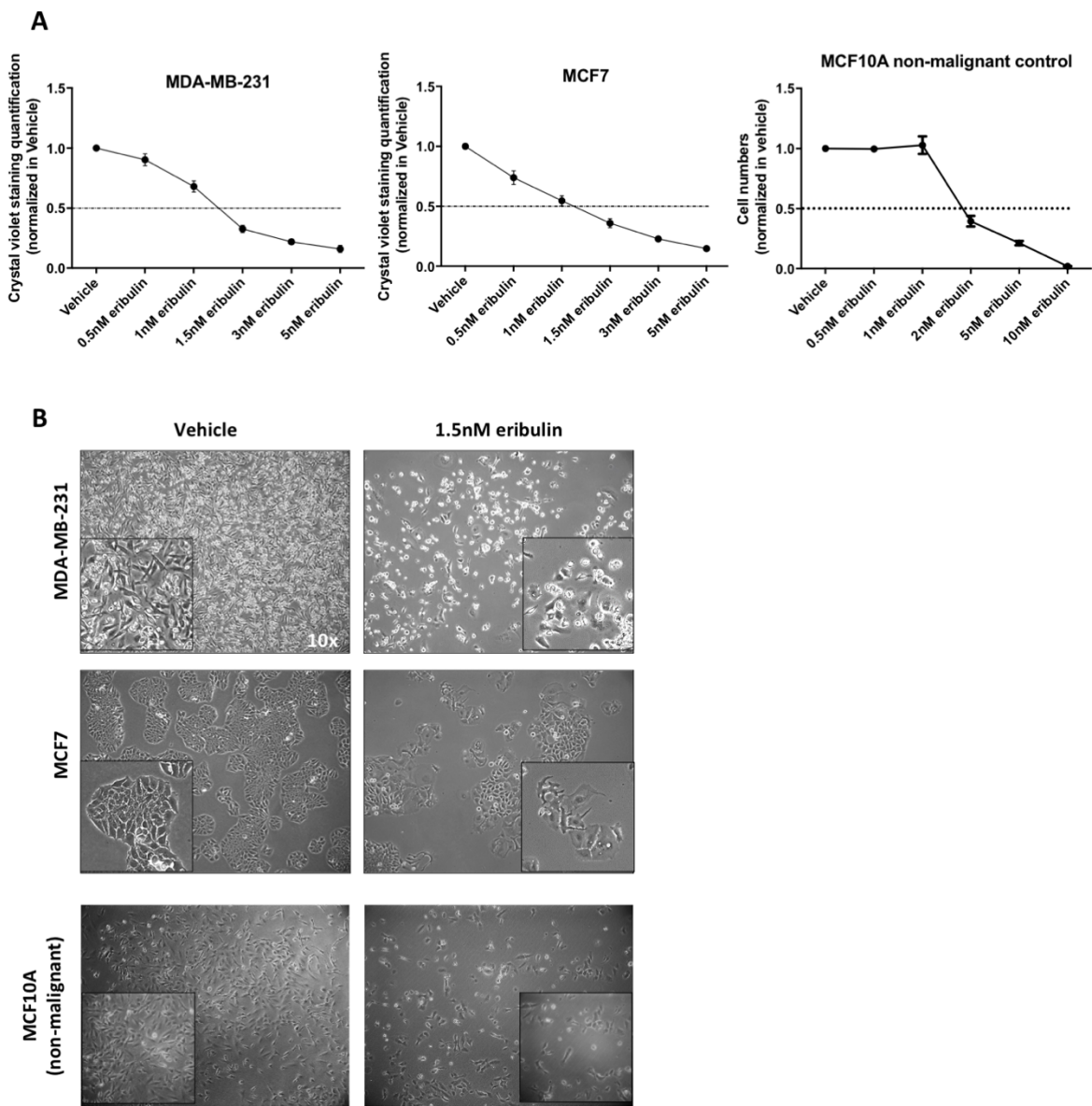
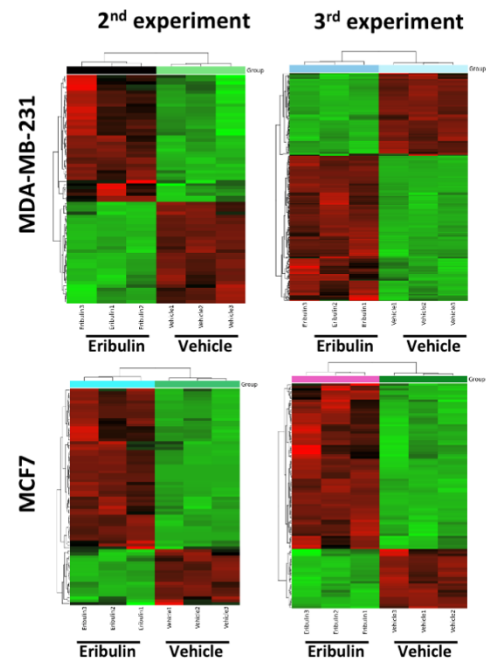


Figure S2

A



B

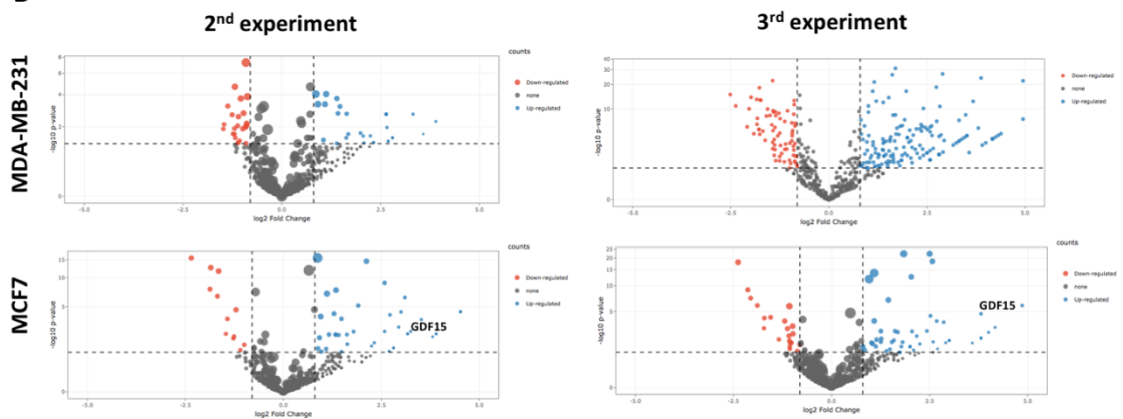
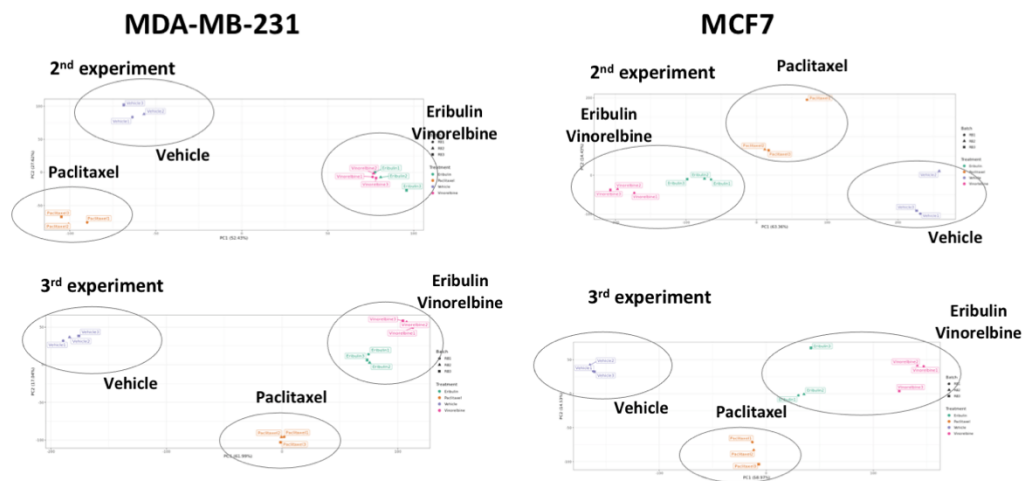


Figure S3

A



B

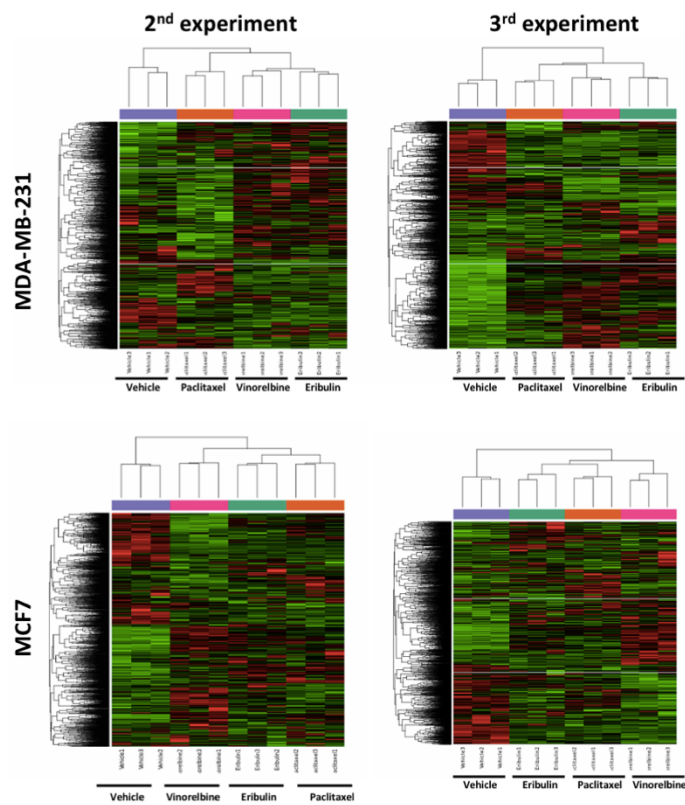


Figure S4

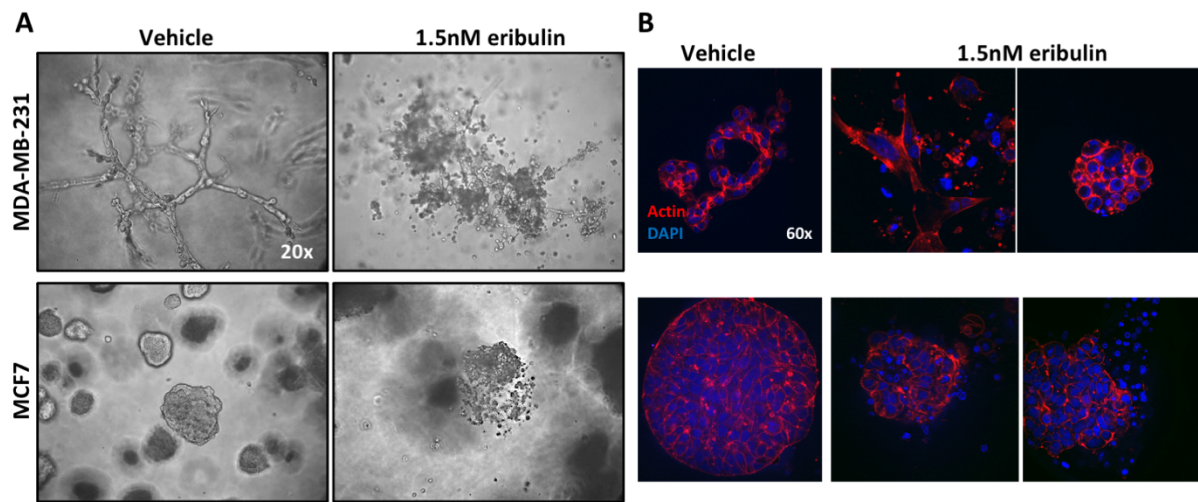


Figure S5

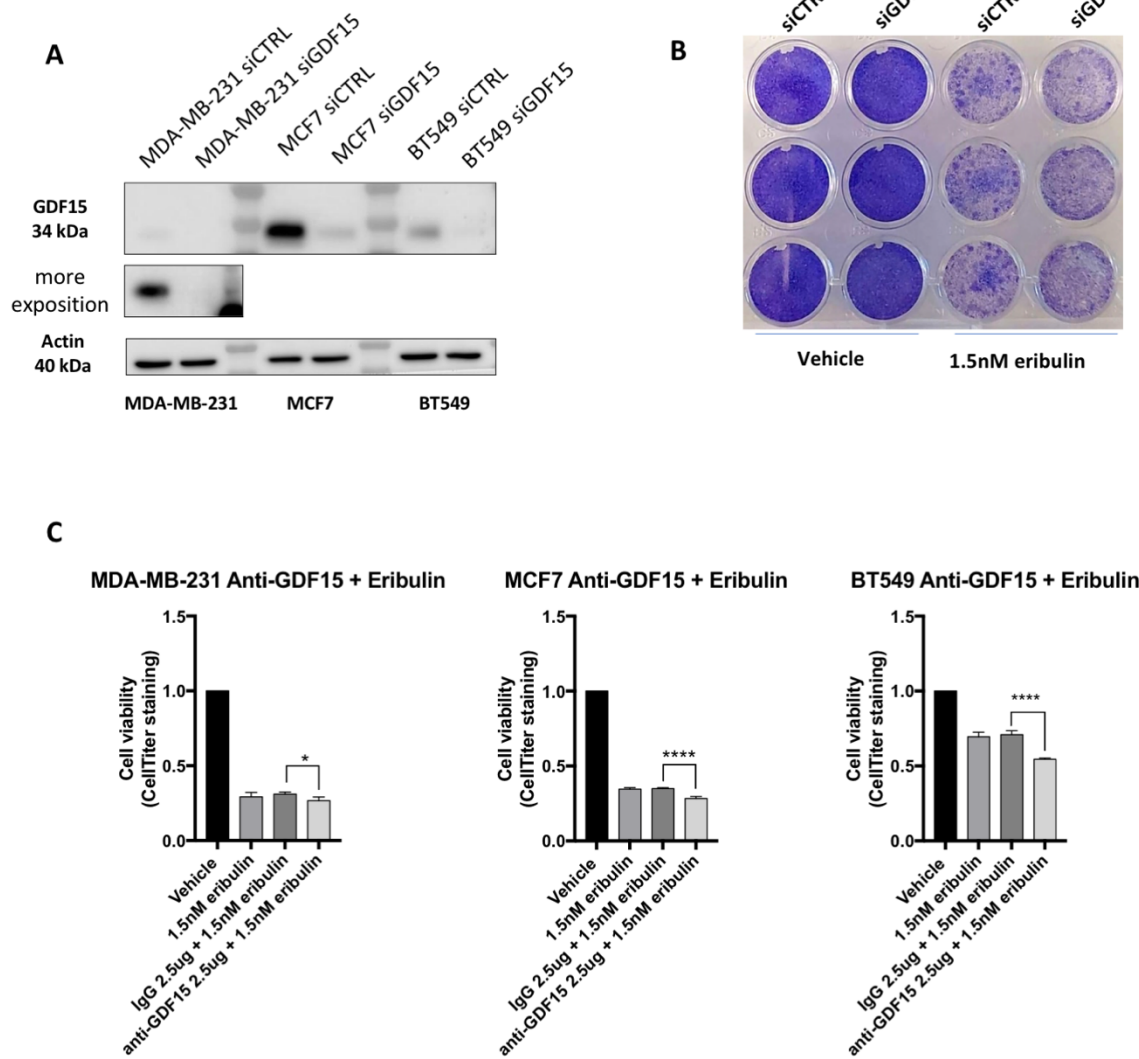
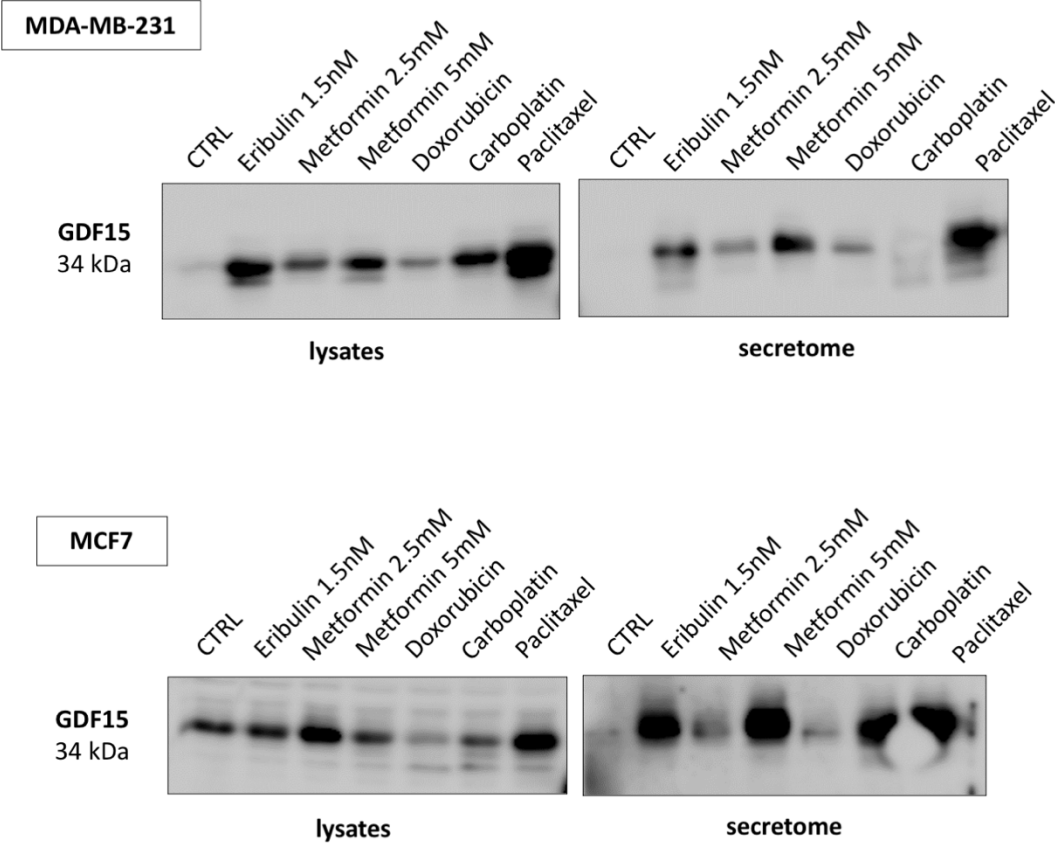


Figure S6



Uncropped blots

Figure 1 E

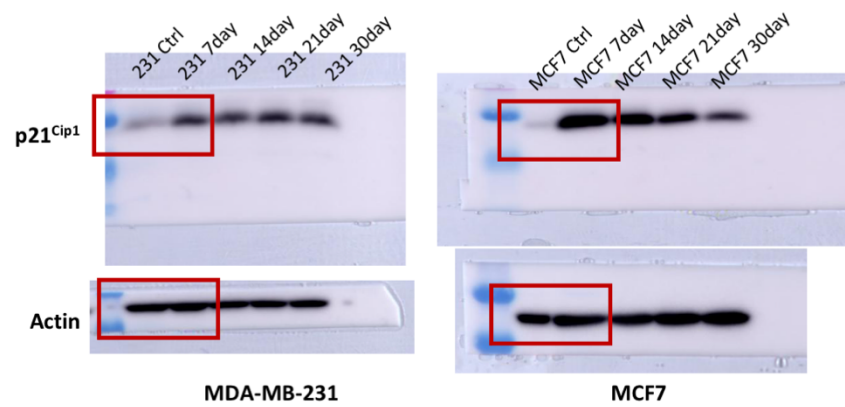


Figure 2 E – MDA-MB-231

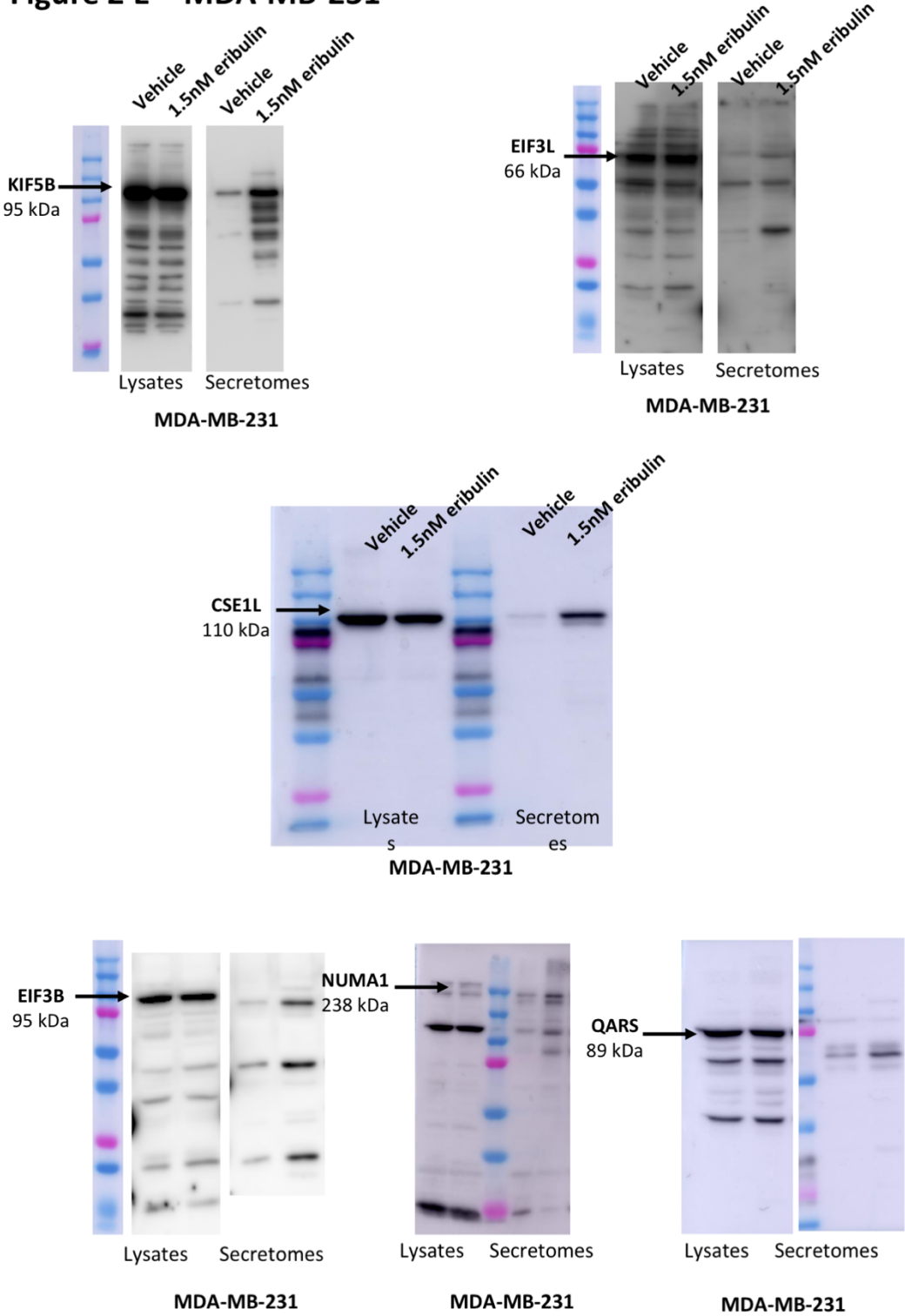


Figure 2 E – MDA-MB-231

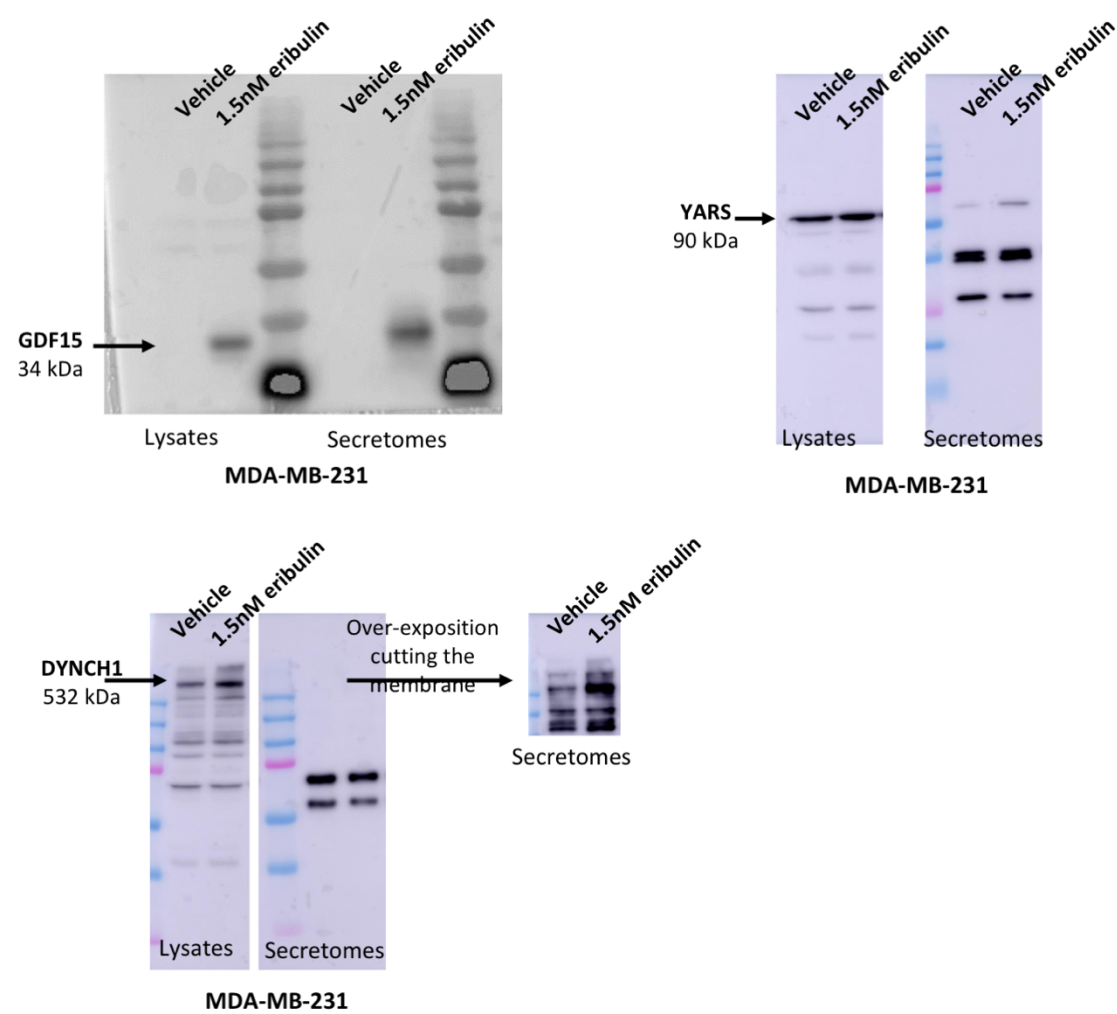


Figure 2 E – MCF7

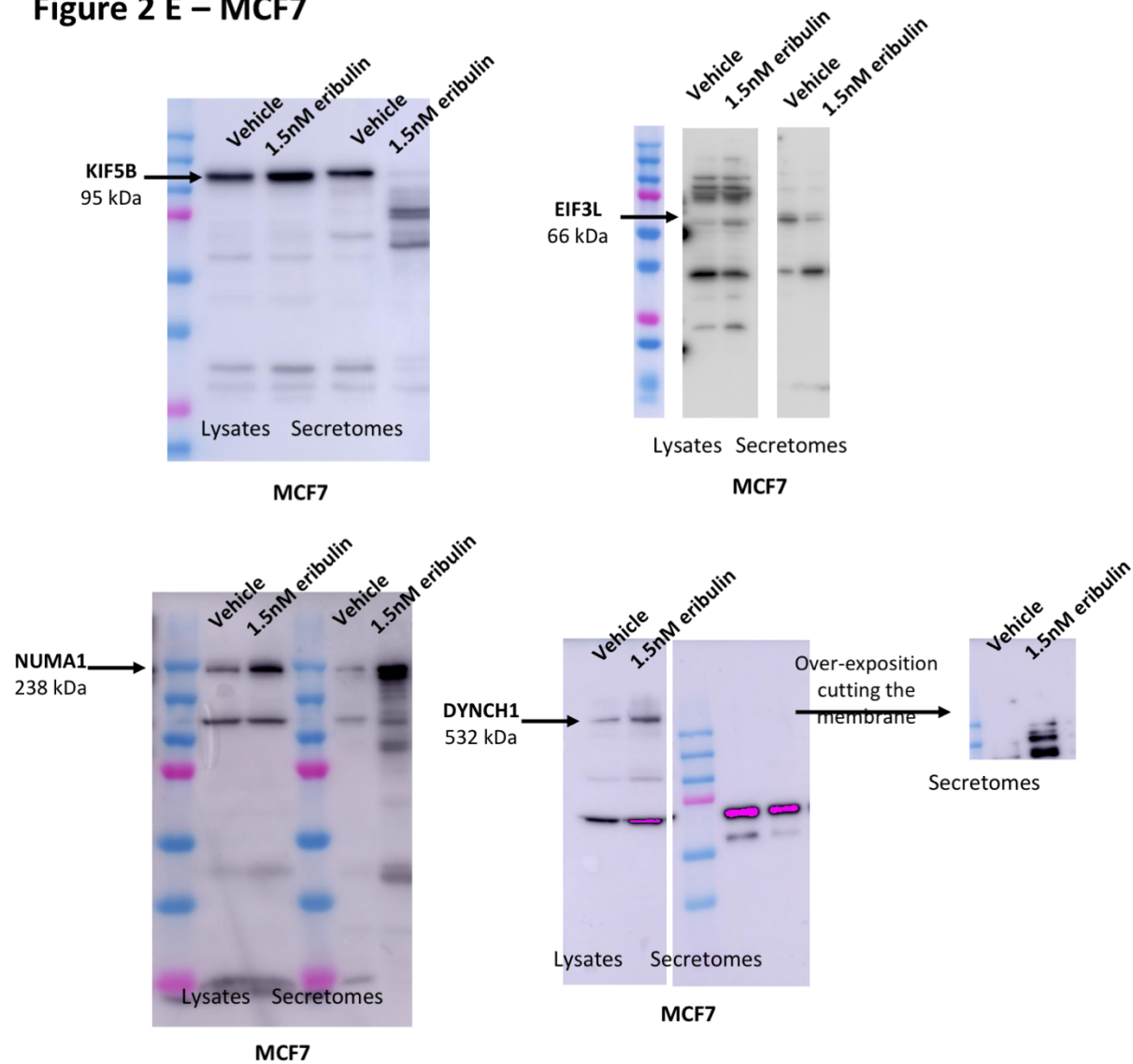


Figure 2 E – MCF7

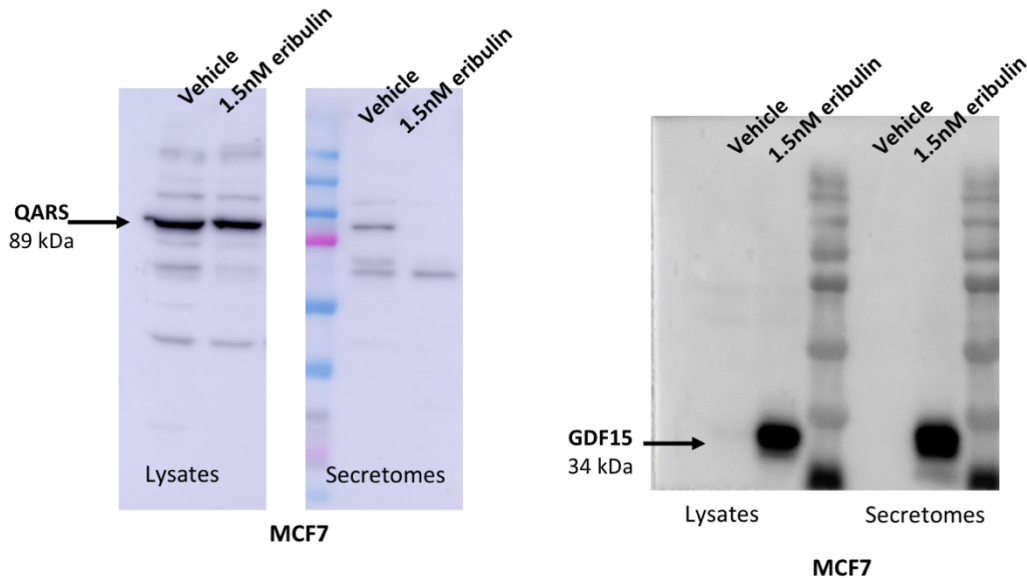


Figure 4 A

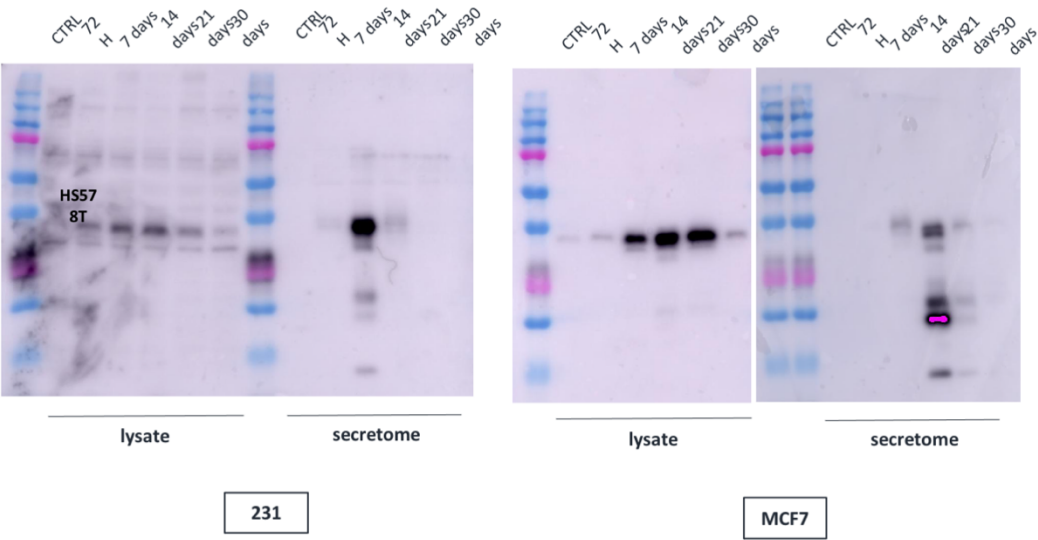


Figure 4 B

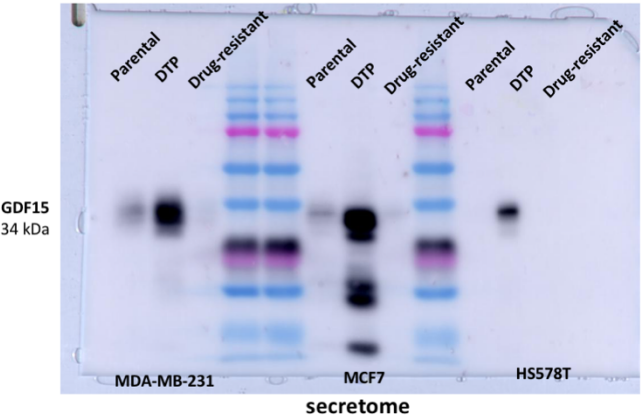


Figure 4 C

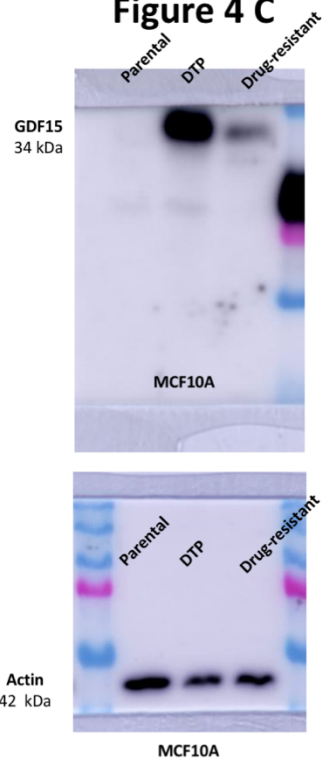


Figure 4 E

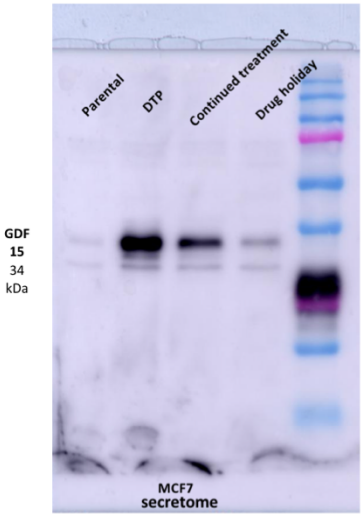


Figure 4 G

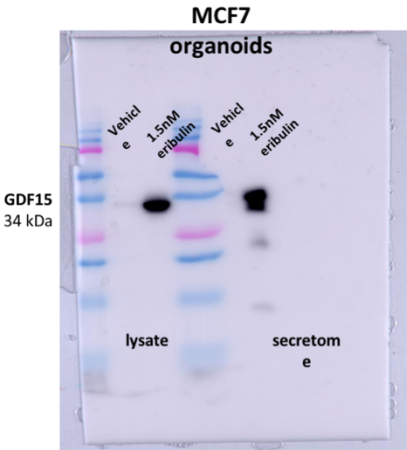
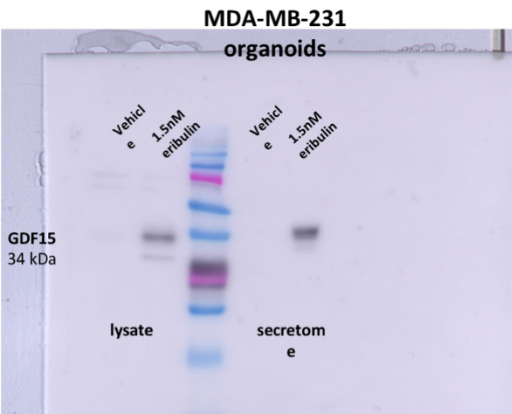


Figure 5 B

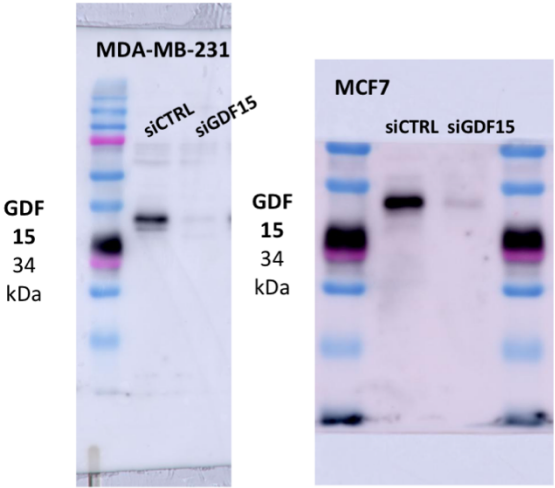


Figure 5 F

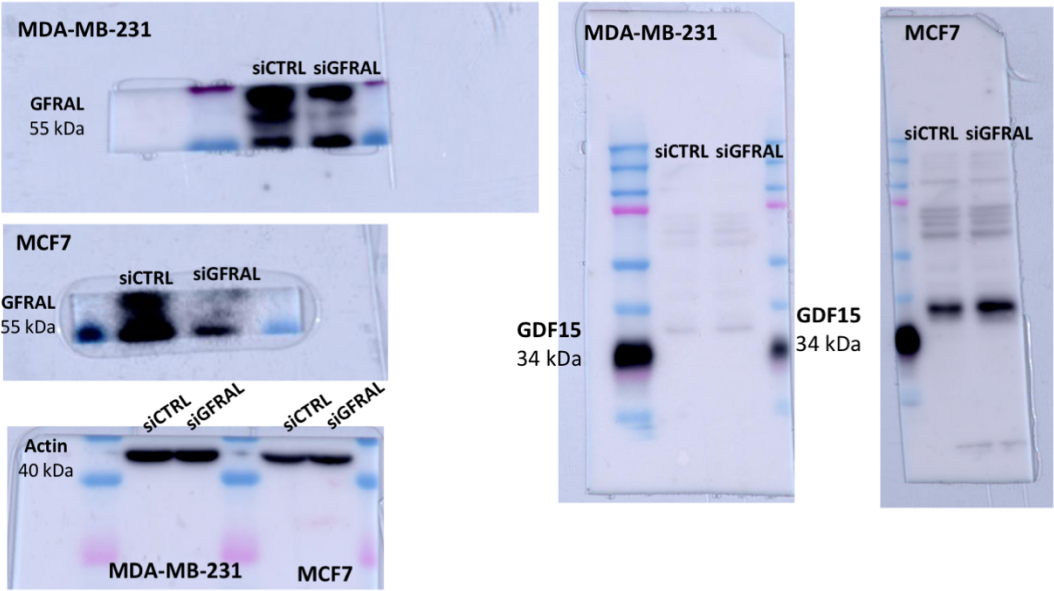


Figure S5 A

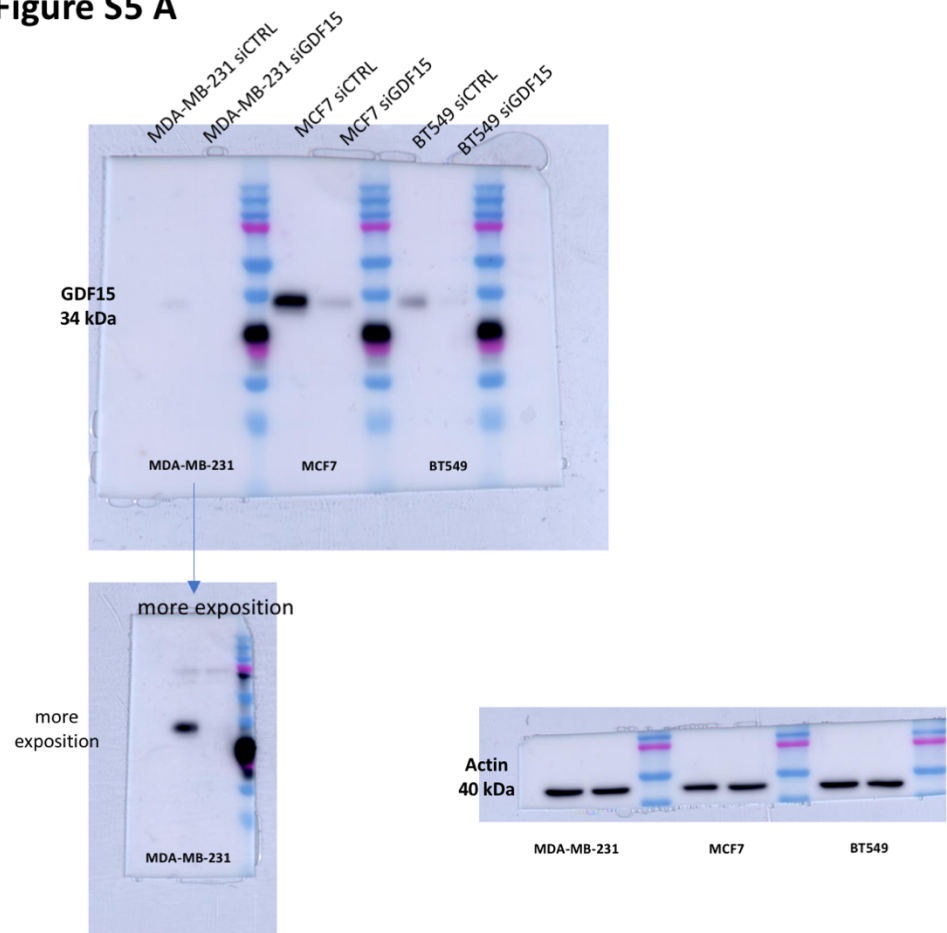


Figure S6

