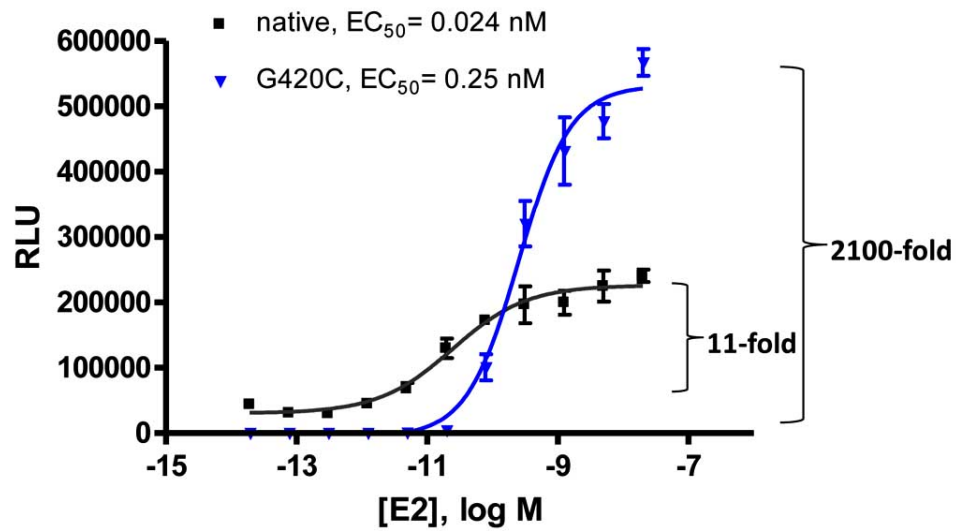


SUPPLEMENTARY MATERIAL



Supplementary Fig. (1). Stable GloResponseTM 9XGAL4UAS-luc2P HEK293 cell line was transiently transfected with pBIND-ER containing either the ER α Genbank sequence (native) or the mutant (G420C) in a 10 cm dish. One day later, cells were transferred to 384-well plates containing a serial dilution of E2. Luminescence was quantified using Dual-GloTM Assay System, on the Thermo VarioSkan multimode reader. The mutant ER-LBD shows a lower background and higher induced expression levels, yielding a larger dynamic range. It also shows a right shift in EC_{50} .