## **GR Reporter Cell Line (HT1080)**



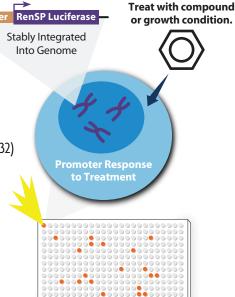
**Catalog No.: 32210** 

The LightSwitch™ GR Reporter Cell Line (HTI080) was designed for the study of pathways regulated by the glucocorticoid receptor (GR). It contains a stably integrated LightSwitch Synthetic Response Element reporter construct (S900015), which is comprised of repeats of a glucocorticoid receptor binding site motif, cloned upstream of a minimal promoter and the RenSP luciferase gene in the Long-range Enhancer Reporter Vector, pLightSwitch LR vector.

**IMPORTANT:** Because all LightSwitch reporter cell lines contain the optimized RenSP luciferase gene, you MUST use our **LightSwitch Luciferase Assay Kit** (Cat. Nos. 32031 & 32032) to obtain optimal results. (Other luciferase assay reagents are not compatible with RenSP.)

## **Experimental Details:**

- Assays were performed in triplicate. 10K cells per well were seeded in a 96-well white plate in standard media without antibiotic.
- 2. Cells were incubated at 37°C for 8 hours.
- 3. Standard media was removed and replaced with 100  $\mu$ l of OptiMEM media. The cells were then incubated at 37°C overnight.
- 24 hours post-seeding, cells were induced with the treatment conditions indicated below. A 10X dose response series of Dexamethasone (DMSO) was made in OptiMEM. Ten μl of the indicated 10X stock was added to designated wells.
- 5. Cells were incubated at 37°C for 24 hours.
- 6. Plates were frozen at -80°C overnight. (This step is optional, but freezing ensures complete lysis of the cells prior to running the LightSwitch Assay.)
- 7. Plates were thawed to room temperature and LightSwitch Luciferase Assays were performed per the standard protocol.
- 8. The data was normalized to the Control 2 Reporter Cell Line (ACTB promoter, HT1080 cells; Cat. No. 32202); expression data for the control cell line was averaged across all doses. Experimental data points were then divided by this average value to normalize for non-specific effects.



Measure luciferase activity to determine effect of treatments.

