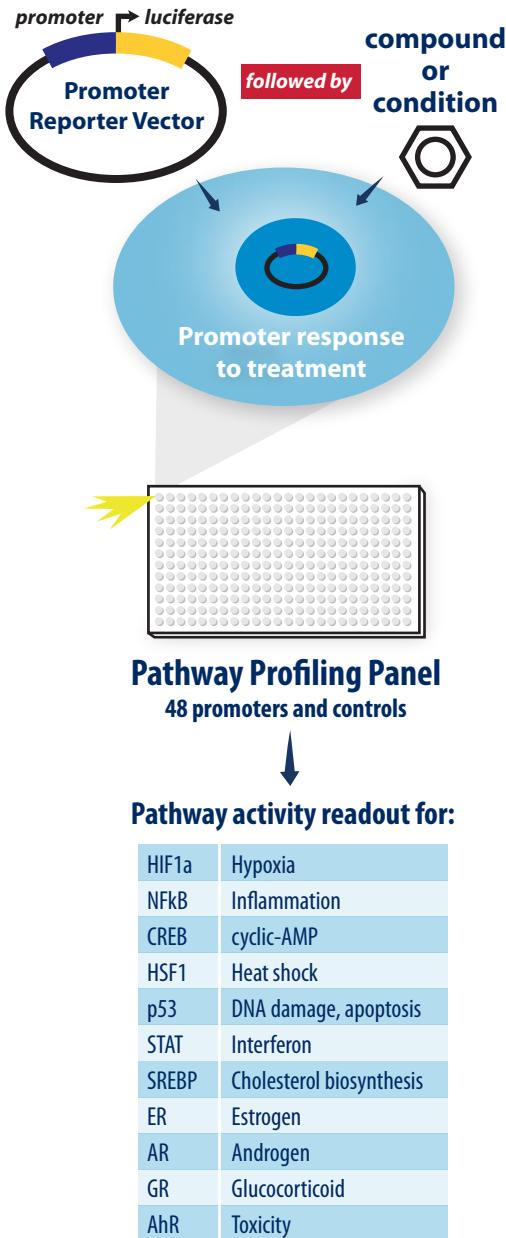




Pathway Screening Service

Measure the effects of your compounds on many different biological pathways



OVERVIEW

SwitchGear Genomics offers a comprehensive cell-based screening service to measure the effects of your compounds on a variety of biological pathways. Our in-house experts use our unique collection of validated biomarker reporter vectors to measure gene expression changes associated with a number of disease-related biological pathways.

A SOLUTION FOR:

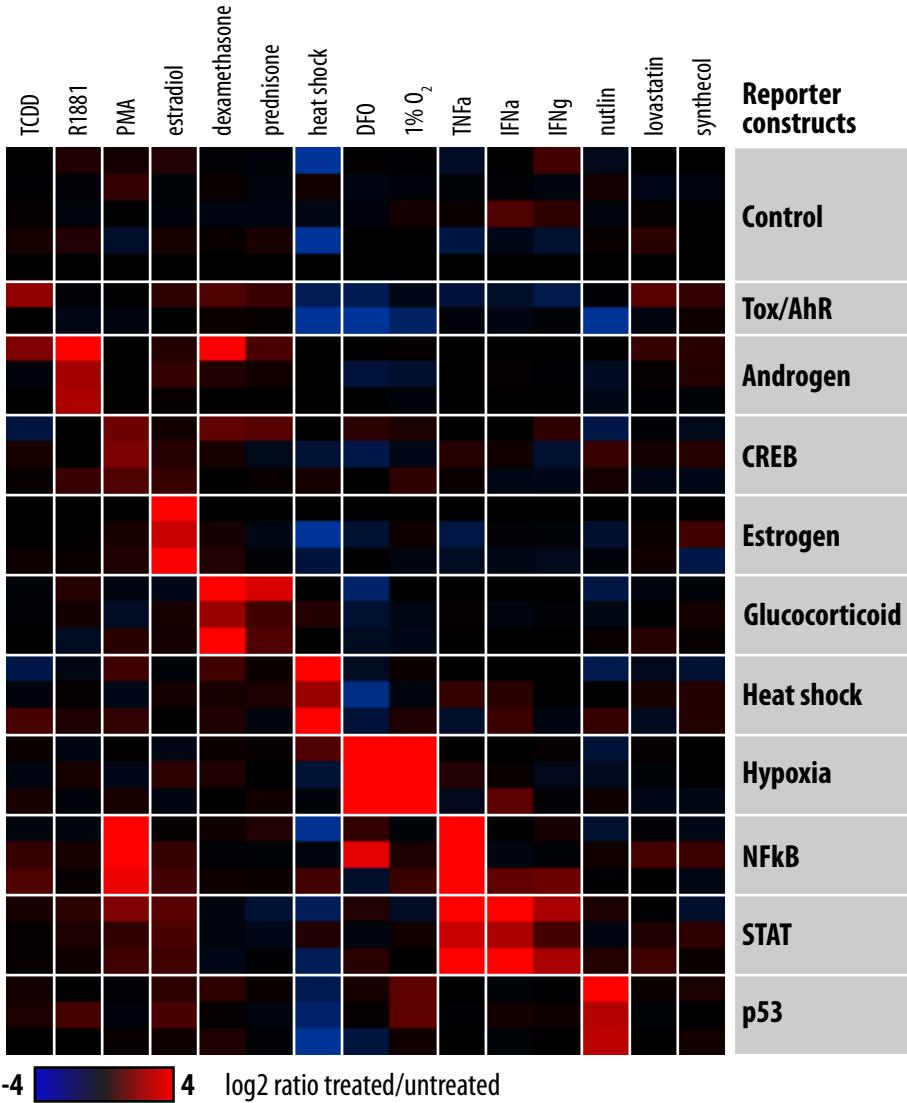
- ▶ Secondary screening, “Hits-to-lead”
- ▶ Off-target analysis
- ▶ Lead compound validation / optimization
- ▶ Dose-response analysis

ADVANTAGES

- ▶ **Leverage our unique collection of validated reporter vectors**
The collection includes endogenous human promoters and synthetic response elements representing many different pathways.
- ▶ **Utilize our expertise**
Let us efficiently screen one or hundreds of compounds to generate comprehensive pathway activation profiles.
- ▶ **Focus on data analysis instead of assay development**
Simply provide us with your anonymous samples, and we will deliver fully annotated results.
- ▶ **Receive superior data**
SwitchGear has an extensive set of validated positive and negative controls and multiple markers for each pathway so that you can analyze your results with confidence.

DATA DELIVERY

- Complete dataset with statistical analysis and annotation
- Heat map visualization summary for every compound tested
- Full cluster analysis for assessing functional similarities between compounds



EXAMPLE DATA

The heat map below shows the inducible activity of 48 different reporter constructs (rows) in 15 different conditions (columns). The red boxes indicate promoters that are up-regulated in a certain condition whereas blue boxes indicate down-regulated promoters. The conditions used in these experiments are treatments with known inducers of different biological pathways. For example, DFO and 1% O₂ are known inducers of the hypoxia pathway, and the hypoxia reporters are strongly induced in these conditions as expected. The heat map also shows pathways that are activated by multiple conditions. For example, PMA and TNFa both strongly activate the NFkB reporters. All experiments were performed in HT1080 cells, and the 48 reporters are a combination of endogenous human promoters and synthetic response elements cloned into LightSwitch vectors. For more details on experimental conditions please visit our website at: <http://switchgeargenomics.com/products/pathway-screening-panels/>

ORDERING INSTRUCTIONS

1. Specify the number of compounds and doses
2. Choose from one of four validated cell lines:
Hela, HT1080, HCT116, HepG2
3. Contact our sales department for a custom quote, sample submission form and instructions:
sales@switchgeargenomics.com
877-994-8240
www.switchgeargenomics.com