

Stable Cell Lines Frequently Asked Questions

Can I store the cells at -80 degrees Celcius?	No, cells should not be stored at -80 degrees C as this will greatly affect cell viability. The cells are shipped frozen. After receipt, cells should be thawed and cultured immediately. If this is not possible, cells should immediately be stored in liquid nitrogen upon arrival until you are ready to thaw and propagate them.
Does Panomics provide a protocol for induction of the cells?	Yes, Panomics provides a detailed protocol of how to propagate the cells for frozen stocks, subculture the cells, induce the cells as well as full description and supplier information for the cell culture media. This information can be found in the Product Information sheet for each Stable Cell Line on the Literature/Support tab of cell line web page. Please go to http://www.panomics.com/products/ and select the cell line of interest under Cellular Solutions.
Has a time course been done for each stable cell line induction?	Yes, we have optimized the induction conditions for each stable cell line. The time course data for each stable cell line are shown on the Data/Specifications tab of each product web page. Please go to http://www.panomics.com/products/ and select the cell line of interest under Cellular Solutions to view the appropriate web page
How are the Stable Cell Lines made?	The Panomics cell lines are designed for monitoring the activity of a specific transcription factor in cell-based assays. Each cell line is A549 is co-transfected with the Luciferase Reporter Vector of interest and pHyg followed by hygromycin selection. Hygromycin-resistant cell clones are selected using a functional assay that induces luciferase activity. These cells maintain a chromosomal integration of a luciferase reporter construct regulated by multiple copies of the response element. Additional details can be found in the Product Insert for each Stable Cell Line on the Literature/Support tab of cell line web page. Please go to http://www.panomics.com/products/ and select the cell line of interest under Cellular Solutions.
How do I ensure the best induction with my cells?	It is very important to ensure that you make frozen stocks after the initial culturing of the stable cell line. The first propagation of cells should be for generating stocks for future use. This ensures the stability and performance of the cells for subsequent experiments.

Is a luminometer with injector required to run the assay?	Injector is not required as the luminescence substrate is stable enough that it can be added to the whole plate and then read on the luminometer.
What induction reagents have been tested with these cell lines?	The induction reagents tested for each stable cell line are shown on the Data/Specifications tab of each product web page. Please go to http://www.panomics.com/products/ and select the cell line of interest under Cellular Solutions to view the appropriate web page.
What is the passage number of my Stable Cell Line?	The Stable Cell Lines are at different passages. Please refer to the Product Information sheet for the passage number of your cells. You can also download the Product Insert for each Stable Cell Line on the Literature/Support tab of cell line web page. Please go to http://www.panomics.com/products/ and select the cell line of interest under Cellular Solutions.
What is the stability of the Panomics Stable Cell Lines?	It is normal for cells to experience genotypic changes. Genetic instability is a biological phenomenon that occurs in all stably transfected cells. This results in reduced responsiveness over time. So, it is critical to prepare an adequate number of frozen stocks at early passages. Each Product Insert provided with the stable cell lines contains detailed protocol steps on how to prepare frozen stocks.
What luminometer settings are recommended?	We recommend an integration time of 1 second. It is important to ensure you are operating in the linear range of your luminometer.