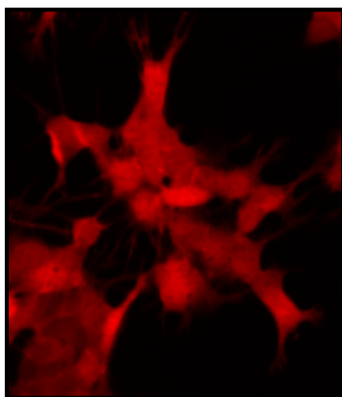


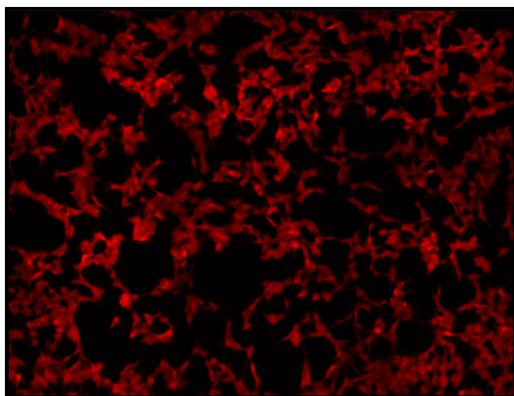
## VAMPIRE™ CELL LINES

### RED FLUORESCENT SH-SY5Y CELLS



<b>Product Name:</b>	VAMPIRE™ –SH-SY5Y Cell line
<b>Catalog Number:</b>	P20303
<b>Cell Line:</b>	SH-SY5Y Human Neuroblastoma
<b>Fluorescent Protein:</b>	turbo FP602
<b>Resistance:</b>	G418
<b>Format:</b>	>3x10 <sup>6</sup> cells in Cryopreserved vials
<b>Storage:</b>	Liquid Nitrogen

A novel red fluorescent SH-SY5Y cell line has been developed through stable transfection with TurboFP602 protein. This cell line expresses red fluorescent protein as a free cytoplasmatic protein.



Turbo FP602-SH-SY5Y Cell line is stably-transfected and it is ready to use in cell-based assay applications. This stably transfected cell line provides consistent levels of expression, which helps to simplify the interpretation of the results. This cell line is intended to be used as an “in vitro” model for research studies.

#### **About SH-SY5Y**

SH-SY5Y is a clonal subline of the neuroepithelioma cell line SK-N-SH that had been established in 1970 from the bone marrow biopsy of a 4-year-old girl with metastatic neuroblastoma. SH-SY5Y are epithelial/neuronal-like elongated cells that grow in monolayer and in clusters. SH-SY5Y cells are known to be dopamine beta hydroxylase active, acetylcholinergic, glutamatergic and adenosinergic.

The cells have very different growth phases and propagate via mitosis and they differentiate by extending neurites to the surrounding area. Some treatments such as retinoic acid and BDNF can force the cells to dendrify and differentiate.

**Use Restriction** This product contains a proprietary nucleic acid coding for a proprietary fluorescent protein intended to be used for research purposes only. No rights are conveyed to modify or clone the gene encoding fluorescent protein contained in this product, or to use the gene or protein other than for non-commercial research, including use for validation or screening compounds. For information on commercial licensing, contact Licensing Department, Evrogen JSC, email: [license@evrogen.com](mailto:license@evrogen.com).

### **About turboFP602 protein**

TurboFP602 protein is a red shifted variant of the red fluorescent protein TurboRFP from sea anemone *Entacmaea quadricolor* [Merzlyak et al., 2007].

TurboFP602 possesses true-red fluorescence (with excitation/emission maxima at 574/602 nm, respectively), optimal for detection via most popular filter sets, and is easily distinguished from background signals. TurboFP602 exhibits fast maturation and high pH stability.

### **Quality Control**

All cells are performance assayed and test negative for mycoplasma, bacteria, yeast and fungi. Cell viability, morphology and proliferative capacity are measured after recovery from cryopreservation. Innoprot guarantees stable expression for many generations and provides support for cell culture and visualization.

#### **THIS PRODUCT IS FOR RESEARCH PURPOSES**

**ONLY.** It is not to be used for drug or diagnostic purposes, nor is it intended for human use. Innoprot products may not be resold, modified for resale, or used to manufacture commercial products without written approval of Innovative Technologies in Biological Systems, S.L.