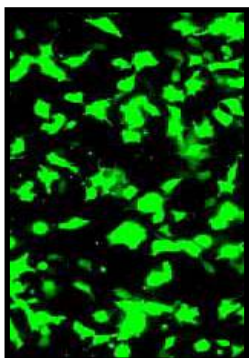


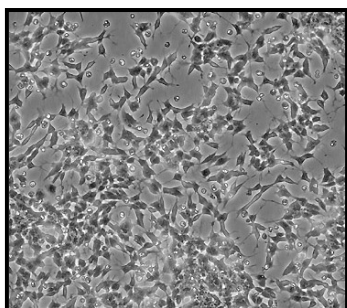
## LINTERNA™ CELL LINES

### GREEN FLUORESCENT SH-SY5Y CELLS



<b>Product Name:</b>	LINTERNA™ - SH-SY5Y Cell line
<b>Catalog Number:</b>	P20103
<b>Cell Type:</b>	SH-SY5Y Human Neuroblastoma
<b>Fluorescent Protein:</b>	tGFP
<b>Format:</b>	3 x 10 <sup>6</sup> cells in Cryopreserved vials
<b>Storage:</b>	Liquid Nitrogen

A novel green fluorescent SH-SY5Y cell line has been developed through stable transfection with Evrogen TurboGFP. This cell line expresses green fluorescent protein gene sequences as free cytoplasmatic proteins.



tGFP-SH-SY5Y Cell line is stably transfected clonal cell line that is ready to use in cell-based assay applications. This stably transfected clonal cell line provides consistent levels of expression, which helps simplify the interpretation of results. This cell line is intended to be used as “in vitro” model for neuronal differentiation studies.

#### About SH-SY5Y

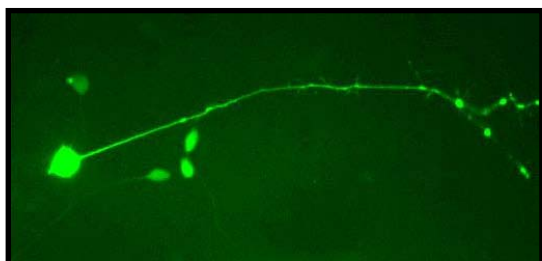
SH-SY5Y is a clonal subline of the neuroepithelioma cell line SK-N-SH that had been established in 1970 from the bone marrow biopsy of a 4-year-old girl with metastatic neuroblastoma. They are epithelial- /neuronal-like elongated cells growing as monolayer and in cell clusters. SH-SY5Y cells are known to be dopamine beta hydroxylase active, acetylcholinergic, glutamatergic and adenosinergic. The cells have very different growth phases and propagate via mitosis and 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 TurboGFP

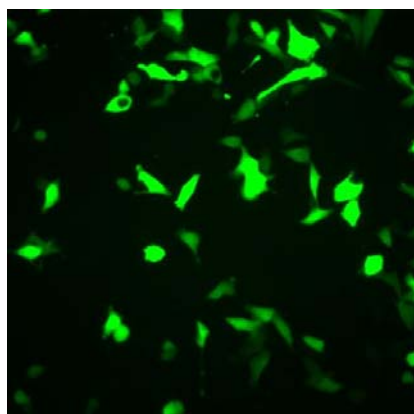
tGFP is an improved variant of the green fluorescent protein CopGFP cloned from copepoda *Pontellina plumata* (Arthropoda; Crustacea; Maxillopoda; Copepoda). It possesses bright green fluorescence (excitation/ emission max = 482/ 502 nm) that is visible earlier than fluorescence of other green fluorescent proteins. TurboGFP is mainly intended for applications where fast appearance of bright fluorescence is crucial. It is specially recommended for cell and organelle labeling and tracking the promoter activity.



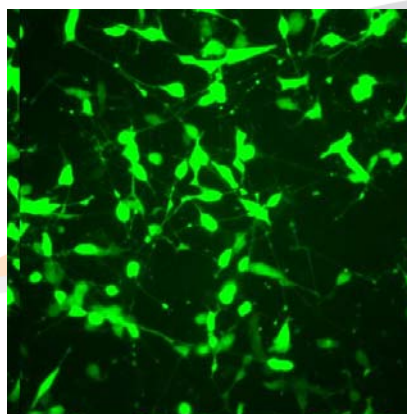
### Quality Control

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.



**Figure 1:** tGFP-SH-SY5Y Cells cultured in normal conditions



**Figure 2:** tGFP-SH-SY5Y Cells treated with retinoic acid)