

P20238

Fibroblasts are mesenchymal cells derived from the embryonic mesoderm. They have been extensively used for a wide range of cellular and molecular studies, as they are one of the easiest types of cells to grow in culture.

In addition, their durability makes them amenable to a wide variety of manipulations ranging from studies employing gene transfection to micro-injection. There is evidence showing that fibroblasts in various organs are intrinsically different.

Fibroblasts secrete a non-rigid extracellular matrix that is rich in type I and/or type III collagen. They are responsible for much of the synthesis of extracellular matrix in connective tissues and play a central role in wound healing.



GREEN FLUORESCENT HUMAN COLONIC FIBROBLASTS

Product Type: Green TTFUOR HCoF

Catalog Number: P20238

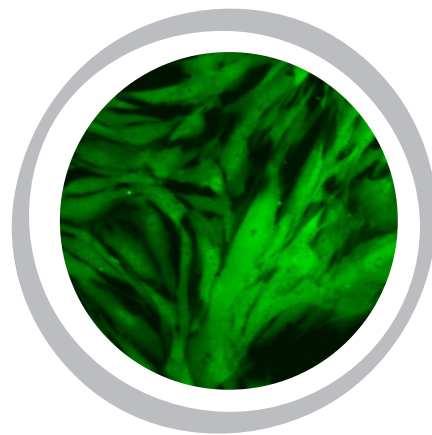
Cell Type: Human Colonic Fibroblasts

Fluorescent Protein: turboGFP

Number of cells: >5x10⁵ cells (cryopreserved vials)

Storage: Liquid Nitrogen

Recommended Medium: Fibroblasts Medium Kit (Ref: P60108)



Green TTFUOR HCoF are green fluorescent human primary colonic fibroblasts, which have been developed through transfection with tGFP expression vector into the cell genome. Cells are expressing the green fluorescent protein gene sequences as free cytoplasmatic protein.

About turboGFP protein

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.

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