



Product: SeaGlow™ Fluorescent Cell Lines*

Catalog #	Description
CRN3884	Green PC-12 Cells
CRN3885	Yellow PC-12 Cells
CRN3886	Red PC-12 Cells
CHS3887	Green HeLa Cells
CMM3888	Green 3T3 Cells
CHS3889	Red T406 Cells
CMM3890	Green M3 Cells
CMM3891	Yellow M3 Cells
CMM3892	Red M3 Cells
CHS3893	Green-Fibrillarin HeLa Cells
CHS3894	Green-Actin HeLa Cells
CMM3895	Yellow-Actin 3T3 Cells
CMM3896	Yellow-Mitochondria 3T3 Cells

Product Description

Derived from widely used mammalian cell lines, SeaGlow Fluorescent Cell Lines express green, yellow, or red fluorescent protein gene sequences as free cytoplasmic proteins or as fusions with other proteins or protein domains. They are provided as 1×10^6 frozen cells/ml in 2-ml vials.

Storage and shipping

Store at -196°C (liquid nitrogen temperature) and ship on dry ice.

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*Created by Marinpharm GmbH. Companies interested in licensing for SeaGlow Fluorescent Cell Lines or Evrogen Fluorescent Proteins should contact Evrogen (www.evrogen.com).

Evrogen Fluorescent Proteins

Name	Fluorescence	Absorption Max (nm)	Emission Max (nm)	Source
CopGFP	green	482	502	<i>Pontellina plumata</i> (copepod)
PhiYFP	yellow	525	537	<i>Phialidium</i> (jellyfish)
JRed	red	584	610	(Anthomedusae jellyfish)

Mammalian Cell Lines

Name	Species	Origin
HeLa	human	Uterus carcinoma
T406	human	Glioma
3T3	mouse	Fibroblasts
M3	mouse	Melanoma
PC-12	rat	Pheochromocytoma (neuronal)

Defrosting Protocol

1. Thaw vial of cells rapidly in a 37°C water bath.
2. Carefully resuspend cells by inverting vial several times.
3. Transfer vial contents to 10-ml tube containing 8 ml of pre-warmed medium.
4. Mix contents of 10-ml tube by inverting several times.
5. Centrifuge at 300 x g for 3 minutes at room temperature.
6. Decant supernatant.
7. Resuspend pellet by manually flicking the tube.
8. Fill tube with pre-warmed medium and transfer contents into a tissue culture flask.
9. Set incubator for 37°C with 5% CO₂.
10. Do not disturb the cells for 24 hours.



Growth Conditions

Growth medium: M3 HeLa 3T3 T406	MEM 2 mM glutamine 10% FCS
Growth medium: PC-12	RPMI 10% horse serum 5% FCS
Incubation	5% CO ₂ 37°C
Trypsinization	0.25% trypsin/EDTA
Passaging	Split confluent cultures in the range 1:3 to 1:6. or seed at 2–4 x 10 ⁴ cells/cm ²

Freezing Protocol

1. Prepare freezing medium: MEM, 20% FCS, 10% DMSO.
2. Chill vial at a rate of 1°C every 2 minutes.
3. Store at –80°C for short-term storage or under liquid nitrogen for long-term storage.