

Product sheet

**NRK-IBB-DiHcRed1 | 500671**

**DESCRIPTION**

**Description** NRK-IBB-DiHcRed1 is a mouse embryonic stem (ES) cell line derived from a 129/Ola mouse strain. It is a clonal cell line that has been established from a single ES cell. The cell line is characterized by its ability to differentiate into all three germ layers (ectoderm, mesoderm, and endoderm) and to form germ cells. The cell line is maintained in culture as a clonal population of cells. The cell line is used for the generation of transgenic mice and for the study of gene expression and differentiation.

**Organism** Mus musculus

**Tissue** Embryonic stem cells

**Synonyms** NRK IBB-DiHcRed1

**CHARACTERISTICS**

**Breed/Subspecies** 129/Ola

**Morphology** Clonal population of cells

**Growth properties** High efficiency of differentiation

**IDENTIFICATION**

**Citation** NRK-IBB-DiHcRed1 (500671)

**Biosafety level** 1

**NCBI\_TaxID** 10116

**CellosaurusAccession** CVCL\_AV95

**Depositor** European Molecular Biology Laboratory (EMBL)

**GENETIC INFORMATION**

**Receptors expressed** EGF receptor (EGFR) and other receptors (MSA)

**Protein expression** IBB-DiHcRed1: 1...589 / Pcmv 656...916 / IBB 932...1615 1670...2356 / HcRed1 3587...4381 / KanR/Neor

### NRK-IBB-DiHcRed1 | 500671

**Products** CMV Promotor IBB (Ribbeck & Gorlich 2002)

### Characteristics

**Culture Medium** DMEM 4.5 g/l, 4 mM, 3.7 g/l NaHCO3 1.0 mM (82)

**Supplements** 10% FBS 0.5% G418

**Dissociation Reagent**

**Subculturing** PBS. 0.025% EDTA

**Split ratio** 1:3 1:4

**Seeding density** 2 x 10<sup>4</sup>

**Fluid renewal** 2-3

**Freeze medium** (FBS) + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells in a 37°C water bath.
  2. Centrifuge cells at 300 x g for 3 minutes.
  3. Wash cells with PBS.
  4. Resuspend cells in 70% FBS.
  5. Seed cells into a 15 cm dish.
  6. Incubate cells for 8 hours.
  7. Change medium to 10% FBS.
  8. Monitor cell growth.

