**Rosa26R26-228-AR8-TA-mCherry - ES Cell Line RES2782**

### ESC Line Information

- **Cell Line Name:** Rosa26R26-228-AR8-TA-mCherry
- **Parental Cell Line:** TL-1 / Rosa26(LCA) clone 589
- **Background Strain:** 129
- **Culturing Protocol:** std_mesc_culture.doc
- **Description:** In these cells Rosa26 gene sequences from -228 to +81 were replaced by an Activin response element (AR8) fused to a TATA-mCherry reporter. These ESCs may be useful to assess Activin, Nodal, and TGFbeta responsiveness.

### Genetic Alterations

1. **RMCE Targeted Mutagenesis**

   - **Type of Allele:** cassette acceptor
   - **Targeted Gene:** gene trap ROSA 26, Philippe Soriano (Gt(ROSA)26Sor - NCBI GeneID:14910)
   - **Targeted Allele:** targeted mutation 1 (Rosa26tm1(LCA)- MGI:104735)
   - **Description of Targeting Vector:** The Rosa 26 cassette acceptor allele was created by replacing a 5.165 kb region of this gene containing exon 1 with a floxed tk-neo cassette, a puromycin-delta-thymidine kinase fusion gene driven by the mouse phosphoglycerol kinase promoter (pU-deltaTK) and a neomycin resistant gene driven by the bacterial EM7 promoter (EM7neo) flanked by minimal (34 bp) tandemly oriented lox71 and lox2272 sites.

   **Targeting Vector Genbank File:** pRosa26.LCA.gb

### Recombinase-Mediated Cassette Exchange Stage

- **Type of Allele:** Gene Replacement
- **Exchanged Cassette Gene:** Activin Response Element (R26-228-AR8-TA-mCherry)
- **Exchanged Cassette Allele Name:** Rosa26tm2(R26-228-AR8-TA-mCherry)
- **Description of Exchange Vector:** not available

**Exchange Vector Genbank File:** pr26228_ar8_tacherry.gb

**Citations:** Not Available

### Associated Images

- **No associated images have been supplied**

### Repositories

**Magnuson Lab**

- **Stock #:** BCBC2782
- **Availability Notes:** Not provided

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Associated Publications
No publications associated

Comments
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