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# Rosa26$^{EN\text{-}Cherry\text{-}Neo}$ - ES Cell Line RES2281

## ESC Line Information

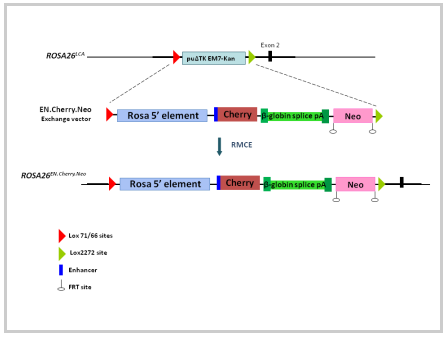
| | |
|---|---|
| **Cell Line Name:** | Rosa26$^{EN\text{-}Cherry\text{-}Neo}$ |
| **Parental Cell Line:** | TL-1 / Rosa26{LCA} clone 5B9 |
| **Background Strain:** | 129 |
| **Culturing Protocol:** | std_mesc_culture.doc |
| **Description:** | This ES cell line expresses mCherry, a red fluorescent protein, under control of the endogenous Rosa26gene. A cassette containing mCherry and other sequences to assure efficient expression were inserted into the Rosa26[LCA] allele by recombinase mediated cassette exchange. These cells will be used to identify an optimal combination of regulatory elements for fluorescent protein expression from a single gene copy and as a reference cell line for fluorescent cell sorting. |

## 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 (Rosa26$^{tm1(LCA)}$ - MGI:104735) |
| **Description of Targeting Vector** | Not available |
| **Targeting Vector Genbank File** | pRosa26.LCA.gb |
| **Recombinase-Mediated Cassette Exchange Stage** | |
| **Type of Allele:** | Gene Replacement |
| **Exchanged Cassette Gene** | Not provided. (mCherry) |
| **Exchanged Cassette Allele Name** | Rosa26$^{EN\text{-}Cherry\text{-}Neo}$ |
| **Description of Exchange Vector** | not available |
| **Exchange Vector Genbank File:** | prosa.en.cherry.bgsplicepa.neo_1.gb |
| **Citations** | Not Available |

## Associated Images

**Image 1**




**Description:**

A red (mCherry) fluorescent protein gene was placed under control of a 4 kb Rosa 26 promoter element. The exchange plasmid also contains a 51 bp translational enhancer (5' leader sequence from Xenopus beta-globin gene), a Kozak sequence upstream of the start codon, which is followed by an intronic region and polyA site from the rabbit beta-globin gene.

**Reference:**

*Not provided*

## Access Status

This resource is publicly viewable.

## Request this Resource

Request from a **repository**

Primary contributor: **Magnuson Lab**

## Resource Tags

embryonic, es, esc, Rosa26$^{EN\text{-}Cherry\text{-}Neo}$, stem, TL1-Rosa26$^{LCA}$ 5B9

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## Resource History & Actions

Approved on Oct 26, 2009
Last modified on Mar 24, 2015

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## Related resources

### BCBC

*No matching resources*

### Other Consortia

*No matching resources*

Data courtesy of dkCOIN. Only public resources are displayed.

## Repositories

| Magnuson Lab | |
|---|---|
| *Out of stock* | **Stock #:** VUMC<br>**Availability Notes:** *Not provided* |

## Contact Information

| Preferred Contact | |
|---|---|
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## Associated Publications

*No publications associated*

## Comments

*There are no comments for this entry.*

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