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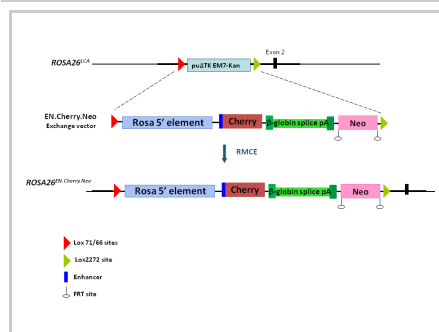
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Rosa26^{EN-Cherry-Neo} - ES Cell Line RES2281**ESC Line Information**

| | |
|----------------------------|---|
| Cell Line Name: | Rosa26 ^{EN-Cherry-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 Rosa26 gene. 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-Cherry-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-Cherry-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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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

Availability Notes: *Not provided*

Contact Information

Preferred Contact

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Associated Publications

No publications associated

Comments

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