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**TetO-CyclinD1-T286A/Cherry - Mouse Strain RES1221****Mouse Information**

<b>Common Name:</b>	TetO-CyclinD1-T286A/Cherry
<b>MGI Official Name:</b>	Gt(ROSA)26Sor <sup>tm1(Ccond1T286A)Stang</sup>
<b>Description:</b>	This strain expresses both mutant cyclin D1 <sup>T286A</sup> and a cherry reporter under the regulation of a tetracycline-responsive bi-directional minimal CMV promoter (TRE-Tight; tetO). The cyclin D1-T286A mutant cannot be phosphorylated by GSK-3beta and is resistant to polyubiquitination. Therefore, cyclin D1-T286A remains nuclear throughout the cell cycle and has an extended half-life relative to wild-type cyclin D1. This strain represents an effective tool for generating inducible tissue-specific cyclin D1 <sup>T286A</sup> mutants with a cherry reporter.
<b>Categories:</b>	Tet

**Genetic Alterations**

<b>1) RMCE Targeted Mutagenesis</b>	
<b>Type of Allele</b>	Cassette Acceptor
<b>Targeted Gene</b>	gene trap ROSA 26, Philippe Soriano (Gt(ROSA)26Sor - <a href="#">NCBI GeneID:14910</a> )
<b>Targeted Allele</b>	targeted mutation 1 (Rosa26 <sup>tm1(LCA)</sup> - <a href="#">MGI:104735</a> )
<b>Description of Targeting Vector</b>	Not available
<b>Targeting Vector Genbank File</b>	<a href="#">pRosa26.LCA.gb</a>
<b>Recombinase-Mediated Cassette Exchange Stage</b>	
<b>Type of Allele:</b>	Conditional Activating
<b>Exchanged Cassette Gene</b>	Cyclin D1 (cyclin D1-T286A - <a href="#">NCBI GeneID:12443</a> )
<b>Exchanged Cassette Allele Name</b>	Rosa26 <sup>(Ccond1T286A)</sup>
<b>Description of Exchange Vector</b>	Flag-cyclinD1T286A was PCR amplified from plasmid (Diehl JA, et al., Genes Dev 1997;11:957 - 972). MluI restriction sites were added to 5' and 3' ends and a Kozak consensus sequence was added. PCR product was cloned into MluI sites of pBR322.hygro.ptight.cherry, screened for orientation, and sequence confirmed bi-directionally.
<b>Exchange Vector Genbank File:</b>	<a href="#">pBR322.hygro.ptight.cherry.CyclinD1T286A.gb</a>
<b>Citations</b>	Not Available


**Strain Information**

<b>Strain Type:</b>	Mixed
<b>Chimera/Founder Genetic Background:</b>	129S6/SvEvTac
<b>Current Genetic Background:</b>	C57BL/6J (date recorded: Not provided)
<b>Strain Description:</b>	Not provided


**Associated Images**

No associated images have been supplied

**Repositories****Access Status**

 This resource is publicly viewable.

**Request this Resource**


 Request from a repository

Primary contributor: [Ben Stanger](#)  
Co-contributed by:  
• [BCBC Mouse / ES Cell Core](#)

**Resource Tags**


mouse, mouse strain, TetO-CyclinD1-T286A/Cherry

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**Resource History & Actions**

Approved on Mar 10, 2009  
Last modified on Jan 14, 2011

 Login to edit or request an edit

**Related resources****BCBC**

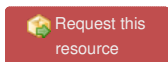
No matching resources

**Other Consortia**

No matching resources

Data courtesy of [dkCOIN](#). Only public resources are displayed.

**Magnuson Lab**



**Stock #:** LM BSID 0076

**Availability Notes:** Sperm cryo vial LM, Straw LM, BSID 0076, 47 straws, frozen 10/11/10

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**Contact Information**

**Preferred Contact**

<b>Name</b>	Ben Stanger
<b>Institution</b>	University of Pennsylvania
<b>Phone</b>	215-746-5560
<b>Email</b>	<a href="mailto:bstanger@exchange.upenn.edu">bstanger@exchange.upenn.edu</a>

**Primary Lab Contact**

<b>Name</b>	Matthew Emmett
<b>Institution</b>	University of Pennsylvania
<b>Phone</b>	<i>Not provided</i>
<b>Email</b>	<a href="mailto:memmett@mail.med.upenn.edu">memmett@mail.med.upenn.edu</a>

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**Associated Publications**

*No publications associated*

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**Comments**

*There are no comments for this entry.*

