These Csf3 knock-out mice exhibit chronic neutropenia.

Donating Investigator
Dr. Ashley Dunn, Ludwig Institute for Cancer Research

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

* Csf3 is colony stimulating factor 3 (granulocyte)

** Csf3 allele is targeted (Reporter, Null/Knockout)

** Csf3 gene symbol

** Csf3 gene name: colony stimulating factor 3 (granulocyte)
Mice homozygous for the Csf3<sup>tm1Ar</sup>d targeted mutation are viable and fertile but are characterized by chronic neutropenia. Peripheral blood neutrophil levels of homozygotes are 20 to 30% of wildtype. There is a 50% reduction of granulocyte, macrophage and blast progenitor cells in marrow of homozygous mice and an impaired resistance to infection with <i>Listeria monocytogenes</i>. 

**Genetics**

- **Csf3<sup>tm1Ar</sup>d**

**Disease/Phenotype**

- **Disease Terms**
- **Research Areas By Phenotype**
- **Mammalian Phenotype Terms by Genotype**
- **References**
Genotyping Protocols
Separated PCR: Csf3
Separated PCR: csf3 3’ design
Genotyping resources and troubleshooting

Breeding Considerations

The Csf3-deficient strain is maintained by homozygous sibling matings. This strain should be housed under pathogen free conditions similar to the Prkdc<sup>scid</sup> /Prkdc<sup>scid</sup> mouse or any other immunodeficient strain. It is on a mixed C57BL/6 x 129/Ola genetic background.

Additional Breeding and Husbandry Support

Appearance
Multiple coat colors.

Citation
When using the G-CSF- mouse strain in a publication, please cite the originating article(s) and include JAX stock #002398 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

*Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200*

Pricing & Availability

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

<table>
<thead>
<tr>
<th>Service/Product</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for Csf3&lt;tm1Ard&gt;</td>
<td>$2,854.50</td>
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