Overview

Mice homozygous for the grey-lethal spontaneous mutation (Ostm1<sup>gl<sup> are characterized by osteopetrosis. Homozygous mutant mice are anemic, have a reduced white cell count, early thymic involution, and deficient calcium regulation. Homozygotes lack the power of secondary bone resorption. Consequently, the bones cannot grow normally, they do not form normal marrow cavities, and the teeth do not erupt.
Mice homozygous for the grey-lethal spontaneous mutation (Ostm1gl) are characterized by osteopetrosis. Homozygous mutant mice are anemic, have a reduced white cell count, early thymic involution, and deficient calcium regulation. Homozygotes lack the power of secondary bone resorption. Consequently, the bones cannot grow normally, they do not form normal marrow cavities, and the teeth do not erupt.
Genotyping Protocols
Separated MCA: Ostm1
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, heterozygous mice may be bred together. Homozygous mice develop malocclusion or lack of teeth.
This strain breeds well and then just stops breeding.

Additional Breeding and Husbandry Support

Appearance

.Edar<sup>dl-J</sup>: agouti
Related Genotype: A/A ? +/+ ? or A/A Edar<sup>dl-J</sup> +/+ Ostm1<sup>gl</sup>

.Edar<sup>dl-J</sup>: agouti, sparse fur
Related Genotype: A/A ? Edar<sup>dl-J</sup>/- Edar<sup>dl-J</sup>

Ostm1<sup>gl</sup>: agouti
Related Genotype: A/A ? +/+ ? or A/A Edar<sup>dl-J</sup> +/+Ostm1<sup>gl</sup>

Ostm1<sup>gl</sup>: grey, early lethal
Related Genotype: A/A Ostm1<sup>gl</sup> +/Ostm1<sup>gl</sup> ?

Citation

When using the GL Le Edar<sup>dl-J</sup> +/- Ostm1<sup>gl</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #000255 in your Materials and Methods section.

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

Cryo Recovery

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

Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Pricing

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<td>Cryo Recovery</td>
<td>Genes in Repulsion: Heterozygous for Edar&lt;dl-J&gt;, Heterozygous for Ostm1&lt;gl&gt;</td>
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Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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Terms Of Use

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All Related Strains