B6N.129P2-Axin2^{tm1Wbm}/J

Stock No: 009120 | Conductin^{lacZ}

Genetic Targeted Mutation

REPOSITORY LIVE

PLACE ORDER

3–6 week average lead time depending on quantity and age requests are not accepted

Also Known As: Conductin^{lacZ}, B6.129P2-Axin2^{tm1Wbm}/J

The Axin2^{lacZ} mutation both abolishes endogenous gene function and expresses NLS-lacZ under the control of the endogenous promoter/enhancer regions. Homozygous mice exhibit a phenotype resembling craniosynostosis in humans.

Donating Investigator

Walter Birchmeier, Max-Delbrueck-Center for Mol. Medicine

READ MORE +

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>N16×N1F6</td>
<td>(2018-02-13 00:00:00)</td>
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<table>
<thead>
<tr>
<th>Axin2^{tm1Wbm}</th>
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<tbody>
<tr>
<td>Allele Type</td>
</tr>
<tr>
<td>Targeted (Reporter, Null/Knockout)</td>
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VIEW GENETICS

Developmental Biology Research
Sensorineural Research
Cell Biology Research
Mouse/Human Gene Homologs
Research Tools
Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS
Starting at:

$76.22 Domestic price for female
$347.22 Domestic price for breeder pair

Details

Detailed Description

Homozygous mice are viable and fertile, with the Axin2lacZTaqT (or conductinlacZ) mutation that both abolishes endogenous Axin2 gene function and expresses NLS-lacZ under the control of the endogenous Axin2 promoter/enhancer regions. Homozygous mice exhibit cranial skull defects and malformations of skull structures; a phenotype resembling craniosynostosis in humans. Specifically, homozygous mice show an obvious reduction in head growth within the first 3 weeks after birth, resulting from developmental defects of the cranial skull (premature fusion of cranial sutures) at early postnatal stages. Axin2-deficient mice have abnormal caudal morphogenesis/osteoblast development. Because Axin2 is a negative regulator of the canonical Wnt pathway that suppresses signal transduction by promoting catenin degradation, the NLS-lacZ expression in these Axin2lacZ (or conductinlacZ) mutant mice may be useful in monitoring endogenous canonical Wnt signals in many tissues and organs during development, regeneration and tumorigenesis.

C57BL/6N-derived mice are homozygous for the recessive mutation retinal degeneration 8 (Crb1rd8) - identified as a single base deletion in the Crb1 gene that causes a frame shift and premature stop codon that truncates the transmembrane and cytoplasmic domain of the protein.


Development

Expression Data

Control Suggestions

Selected References

Genetics

Axin2im1Wbm

Disease/Phenotype

Disease Terms
Genotyping Protocols
Standard PCR: Axin2<sup>im1Wbm</sup>
Probe: Axin2<sup>im1Wbm</sup> Probe
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
When maintaining a live colony, heterozygous mice may be bred together, to wildtype siblings, or to C57BL/6NJ inbred mice (Stock No. 005304).
Additional Breeding and Husbandry Support

Mating System
Heterozygote x +/- sibling

Citation
When using the C57BL/6J-lacZ<sup>im1Wbm</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #009120 in your Materials and Methods section.

Facility Barrier Level Descriptions
AX10 (Standard)

Pricing & Availability
3–6 week average lead time depending on quantity and age requests are not accepted

| Repository Live |

| Domestic | International |

**Live Mouse**

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<th>AGE</th>
<th>SEX</th>
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<td></td>
<td>Male</td>
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Breeder Pair

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Related Products and Services

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

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Email: TechTran@jax.org

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- All
- By Allele
- By Gene
- By Collection

All Related Strains
Leading the search for
TOMORROW'S CURES