These fertilin β (Adam2) mutant mice may be useful in reproductive biology studies; specifically to determine the role of ADAM (A Disintegrin And Metalloprotease) family proteins in sperm-egg interactions, fertilization, and spermatogenesis. These mice may also be useful in conjunction with other ADAM family mutant mice, including the cyritestin (Adam3)-deficient strain (see Stock No. 008043).

Donating Investigator
Paul Primakoff, University of California Davis

These mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
Mice homozygous for this fertilin β (Adam2) mutant allele are viable with no gross phenotypic abnormalities reported. Both precursor and processed fertilin β proteins were absent from spermatogenic cells and mature sperm isolated from homozygous males. While homozygous females are fertile with normal egg activation, homozygous males exhibit sperm deficiencies in sperm-egg membrane adhesion, sperm-egg fusion, migration from the uterus into the oviduct, and binding to the egg zona pellucida, rendering them infertile. These fertilin β (Adam2) mutant mice may be useful in reproductive biology studies; specifically to determine the role of ADAM (A Disintegrin And Metalloprotease) family proteins in sperm-egg interactions, fertilization, and spermatogenesis. These mice may also be useful in conjunction with other ADAM family mutant mice, including the cyritestin (Adam3)-deficient strain (see Stock No. 008043).
Genotyping Protocols
Standard PCR: Adam2
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, homozygous females are bred with heterozygous males. Homozygous males have severe sperm defects rendering them infertile.

Additional Breeding and Husbandry Support

Citation
When using the B6;129P2-Adam2<sup>tm1Dgm</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #008042 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

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

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.

THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. Therefore, we cannot guarantee a strain's phenotype will meet all expectations. To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee breeding performance and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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