This strain serves as a model of noninsulin dependent diabetes mellitus, type 2.

### GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>F107+4pF14</td>
</tr>
<tr>
<td></td>
<td>(2020-01-17 00:00:00)</td>
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</tbody>
</table>

### RESEARCH APPLICATIONS

Neurobiology Research
Important Note
This strain is homozygous for $Cdh23^{ahl}$, the age related hearing loss 1 mutation, which on this background results in progressive hearing loss with onset after 10 months of age.

Detailed Description
KK/HIJ male mice exhibit diabetic symptoms that includes hyperglycemia, hyperinsulinemia, and insulin resistance.

Genetics

- $Hc^0$
- $Cdh23^{ahl}$
- $Cox7a2^{li}$
Genotyping Protocols
Pyrosequencing: Tyr c
End Point Analysis: Tyr c-EP
Genotyping resources and troubleshooting

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

Mating System
Sibling x Sibling
Appearance
albino
Related Genotype: a/a Tyr c/Tyr c

Citation
When using the KK/HJ mouse strain in a publication, please include JAX stock #002106 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

 AX18 (Maximum)
Live mice available in varying quantities. Ask Customer Service for details.

### Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>4 weeks</td>
<td>Female</td>
<td>Not Applicable</td>
<td>$236.78</td>
</tr>
<tr>
<td></td>
<td>Male</td>
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<td>$236.78</td>
</tr>
<tr>
<td>5 weeks</td>
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<tr>
<td></td>
<td>Male</td>
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<td>$236.78</td>
</tr>
<tr>
<td>6 weeks</td>
<td>Female</td>
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<td>$236.78</td>
</tr>
<tr>
<td></td>
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<tr>
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<tr>
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<td>9 weeks</td>
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<td>10 weeks</td>
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<tr>
<td>11 weeks</td>
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<td></td>
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<td>12 weeks</td>
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<tr>
<td></td>
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<td>Not Applicable</td>
<td>$236.78</td>
</tr>
</tbody>
</table>

### Related Products and Services

| Frozen Mouse Embryo | KK/HIJ Frozen Embryos | $2595.00 |

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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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Licensing Information

Phone: 207-288-6470
Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains