C57BL/6J DIO Control

Stock No: 380056 | Black 6 DIO Control

Inbred Strain

PLACE ORDER

Sized to accommodate orders of up to 100 or more. Call Customer Service for details.
Also Known As: Black 6 DIO Control, B6 DIO Control, B6J DIO Control, DIO Control Mouse, Diet-induced Obesity Control

C57BL/6J DIO Control mice are provided a low fat diet with the same protein content as the diet provided to C57BL/6J DIO (diet-induced obese) mice. DIO controls do not develop the pre-type 2 diabetes phenotypes observed in DIO mice. Male C57BL/6J mice are placed on low fat diet at 6 weeks of age and study-ready animals are available between 7 and 30 weeks of age. For projects requiring a custom diet or a different strain, our project managers can work with you to get the mice you need.

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>000664 C57BL/6J</td>
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</tbody>
</table>

RESEARCH APPLICATIONS

Cardiovascular Research  
Diabetes and Obesity Research  
Metabolism Research

BASE PRICE

Starting at:

$30.45 Domestic price for male 7-week
Important Note
This strain is homozygous for Cdh23<sup>ahl</sup>, 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
In comparison to DIO mice fed a high fat diet, C57BL/6J mice fed a low-fat control diet do not become obese, maintain normal blood glucose and serum lipid levels, and have improved glucose tolerance (see detailed phenotypic data). They serve as a control for DIO C57BL/6J mice.

Development

Selected References

Genetics

Gluchos<sup>1<sub>C57Bl/6J</sub></sup>

Gluchos<sup>3<sub>C57Bl/6J</sub></sup>

P2rx7<sup>R651L</sup>

Fbrwt<sup>2<sub>C57Bl/6J</sub></sup>

Fbrwt<sup>1<sub>C57Bl/6J</sub></sup>

Apohec<sup>3<sub>R113-1</sub></sup>

Cdh23<sup>ahl</sup>

Gluchos<sup>2<sub>C57Bl/6J</sub></sup>

Mx1<sup>S1</sup>

Ahr<sup>b-1</sup>

Nnt<sup>C57Bl/6J</sup>

Cd5<sup>3</sup>

Micrt<sup>6</sup>

Nlpr1<sup>2<sub>C57Bl/6J</sub></sup>

n-TRtct<sup>m1J</sup>
Genotyping Protocols
End Point Analysis: H2B rs253049200-Alt 1-EP
Separated MCA: Nn
Standard PCR: Nn
Genotyping resources and troubleshooting

Dietary Information
Research Diets, Inc. D12450B (10 kcal% fat)
DiO Diet Information

Mating System
Sibling x Sibling

Appearance
black

Animal Health Reports
Facility Barrier Level Descriptions
- MP23 (Standard)
- RB12 (Maximum)

Pricing & Availability
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<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>7 weeks</td>
<td>Male</td>
<td>$30.45</td>
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<tr>
<td>8 weeks</td>
<td>Male</td>
<td>$34.18</td>
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<tr>
<td>9 weeks</td>
<td>Male</td>
<td>$37.76</td>
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<td>10 weeks</td>
<td>Male</td>
<td>$41.61</td>
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<td>11 weeks</td>
<td>Male</td>
<td>$45.67</td>
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<td>12 weeks</td>
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<td>$49.51</td>
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<td>13 weeks</td>
<td>Male</td>
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<td>14 weeks</td>
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<td>15 weeks</td>
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<td>$62.43</td>
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<td>16 weeks</td>
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<td>$67.03</td>
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<td>17 weeks</td>
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<td>$71.32</td>
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<td>18 weeks</td>
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<td>$75.38</td>
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<td>20 weeks</td>
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<td>$83.57</td>
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<td>21 weeks</td>
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<td>23 weeks</td>
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<td>$95.72</td>
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<td>24 weeks</td>
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<td>$99.79</td>
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<td>25 weeks</td>
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<td>26 weeks</td>
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<td>29 weeks</td>
<td>Male</td>
<td>$120.13</td>
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<tr>
<td>30 weeks</td>
<td>Male</td>
<td>$124.23</td>
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<td>By Gene</td>
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<tr>
<td>By Collection</td>
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All Related Strains
Leading the search for

TOMORROW'S CURES