Overview

These transgenic mice express the human NPC1 (Niemann-Pick disease, type C1, gene)-like 1 (NPC1L1) gene under the control of the human apolipoprotein E (APOE) promoter and hepatic control region. This mutant mouse strain exhibits decreased biliary cholesterol levels, which is associated with increased plasma cholesterol levels, and may be useful in studies related to lipid metabolism and cholesterol transport.
These transgenic mice express the human NPC1 (Niemann-Pick disease, type C1, gene)-like 1 (NPC1L1) gene under the control of the human apolipoprotein E (APOE) promoter and hepatic control region. Transgene expression is detected in liver by Western blot analysis and is localized to the canalicular membrane. Transgenic mice exhibit decreased biliary cholesterol levels, which is associated with increased plasma cholesterol levels (mostly apoE-rich HDL particles). Biliary phospholipid and bile acid levels are not affected. Mice that are hemizygous for the transgene are viable, normal in size and do not display any gross physical or behavioral abnormalities. The Donating Investigator has not attempted to make this strain homozygous. This mutant mouse strain may be useful in studies of lipid metabolism and cholesterol transport.
Genotyping Protocols
Standard PCR: Tg(APOE-NPC1L1)20Lqyu
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as hemizygotes. The Donating Investigator maintained the strain as a hemizygote.

Additional Breeding and Husbandry Support

Citation
When using the B6.D2-Tg(APOE-NPC1L1)20Lqyu/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #008408 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
Payment Terms and Conditions

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