

B6N.Cg-*Htt*^{tm4Xen}/80Chd1J

Stock No: **027416** | B6N.Hdh (CAGCAA)16 KI; Hdh (CAGCAA)16 KI;

CHDI-81003013

 Congenic, Targeted Mutation

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

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CAG CAG]16) replacing the mouse *Htt* exon 1. These B6N.Hdh (CAGCAA)16 KI mice may be useful for studying Huntington's disease, specifically the effect of interrupted CAG tracts versus pure CAG tracts on somatic instability and RNA structure mechanisms in HD pathophysiology.

Donating Investigator

Dr. David Howland, CHDI Foundation

David S Grass, Taconic Biosciences (formerly Xenogen Biosciences)

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GENETIC OVERVIEW

Genetic Background

Generation

Htt^{tm4Xen}

Alele Type

Targeted (Humanized sequence)

Gene Symbol

Htt

Gene Name

huntingtin

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

Stock No. 027416 was formerly associated with CHDI Foundation colony Stock No. 370604 [CHDI-81003013].

Huntington's disease (HD) is an autosomally dominant, fatal neurodegenerative disorder characterized by uncontrolled movements, psychiatric disturbances and cognitive impairment. HD is caused by an unstable trinucleotide (polyglutamine) repeat expansion in the huntingtin gene (*HTT*; HD or Hdh).

The Hdh (CAGCAA)₁₆ knock-in (Hdh (CAGCAA)₁₆ KI) allele replaces mouse *Htt* exon 1 with the human *HTT* exon 1 sequence with 80 glutamine repeats ([CAG CAA CAG CAA CAA]₁₆). Heterozygous mice are viable and fertile. These mice have not been further characterized to date (April 2014), but may be useful in applications exploring the effect of interrupted CAG tracts versus non-interrupted CAG tracts on somatic instability and RNA structure mechanisms in HD pathophysiology.

This Huntington's disease mouse model is available by way of a collaborative effort between CHDI Foundation, Dr. David S. Grass (Xenogen Biosciences [now Taconic Biosciences]), and The Jackson Laboratory.

Development

Control Suggestions

Genetics

Htt^{tm4Xen}

Disease/Phenotype

[+ Disease Terms](#)

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

Standard PCR:[Laragen](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining our live colony, heterozygous mice are bred to C57BL/6NJ inbred mice (Stock No. [005304](#)).

[Additional Breeding and Husbandry Support](#)

Mating System

Inbred x Heterozygote

Heterozygote x Inbred

Citation

When using the B6N.Hdh (CAGCAA)¹⁶ KI ; Hdh (CAGCAA)¹⁶ KI ; CHDI-81003013 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #027416 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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CRYORECOVERY - DOMESTIC PRICING

| SERVICE/PRODUCT | DESCRIPTION | PRICE |
|-------------------------------|--|------------|
| Cryo Recovery | Heterozygous or wildtype for Htt<tm4Xen> | \$2,854.50 |

RELATED PRODUCTS AND SERVICES

| | | |
|-------------------------------------|--|-----------|
| Frozen Mouse Embryo | B6N.Cg-Htt<tm4Xen>/80Chd1J Frozen Embryo | \$2595.00 |
|-------------------------------------|--|-----------|

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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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Email: TechTran@jax.org

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