

B6.Cg-Gt(ROSA)26Sor^{tm47(HTT)Arte}/ChdiJ

Stock No: **027430** | B6.HD_D586(TT);HQ-016 ; HQ0016-HD-D586 (TT) ;
CHDI-81002017

 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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500 amino acids with 140 mixed CAG-CAG repeats) inserted into the mouse Gt(ROSA)26Sor locus. The polyQ repeat assay shows heterozygous mice over several generations have a stable 141 polyQ repeat. These mice are part of a series expressing different human *HTT* amino acid length fragments, and may be useful for studying comparable patterns and levels of *HTT* expression in Huntington's disease.

Donating Investigator

Dr. David Howland, CHDI Foundation

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GENETIC OVERVIEW

Genetic Background Generation

Gt(ROSA)26Sor^{tm47(HTT)Arte}

Alele Type	Gene Symbol	Gene Name
Targeted (Inserted expressed sequence, RMCE-ready)	<i>Gt(ROSA)26Sor</i>	gene trap ROSA 26, Philippe Soriano

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Neurobiology Research

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. 027430 was formerly associated with CHDI Foundation colony Stock No. 370332 [CHDI-81002017].

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 HD_D586(TT);HQ-016 targeted mutation has the CMV early enhancer/chicken beta actin promoter driving expression of the D586 HTT transgene (human *HTT* fragment encoding the first 586 amino acids with 145 mixed CAA-CAG repeats [see polyQ assay note below]) from the mouse *Gt(ROSA)26Sor* locus. Heterozygous mice are expected to be viable and fertile. The phenotype of these mice is not further characterized to date (August 2015).

Important note on polyQ assay: over several generations, the polyQ repeat assay shows heterozygous mice have maintained a stable 141 polyQ repeat length.

This Huntington's disease mouse model is available by way of a collaborative effort between CHDI Foundation, Taconic Artemis and The Jackson Laboratory.

These mice are part of a series expressing different human *HTT* amino acid length fragments from *Gt(ROSA)26Sor*. All are reported to have a stable array of 145 mixed CAA-CAG repeats (see polyQ assay note above) and are on the C57BL/6 genetic background. Together, they are useful in studying comparable patterns and levels of HTT expression. The series includes:

HD_N171(TT);HQ-021 mice are Stock No. [027426](#)

HD_A463(TT);HQ-020 mice are Stock No. [027427](#)

HD_DS536(TT);HQ-019 mice are Stock No. [027428](#)

HD_D552(TT);HQ-017 mice are Stock No. [027429](#)

HD_D586(TT);HQ-016 mice are Stock No. [027430](#)

HD_1000aa(TT);HQ-022 mice are Stock No. [027431](#)

Development

[+ Control Suggestions](#)

[+ Selected References](#)

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[- 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 a live colony, heterozygous mice may be bred to wildtype mice from the colony or to C57BL/6J inbred mice (Stock No. [000664](#)). To date (August 2015), it has not been attempted to make this strain homozygous.

[Additional Breeding and Husbandry Support](#)

Mating System

Wild-type x Heterozygote

Heterozygote x Wild-type

Citation

When using the B6.HD_D586(TT);HQ-016 ; HQ0016-HD-D586 (TT) ; CHDI-81002017 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #027430 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



Cryo
Recovery

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CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Gt(ROSA)26Sor<tm47(HTT)Arte>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.Cg-Gt(ROSA)26Sor<tm47(HTT)Arte>/ChdJ	\$2595.00
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