

## B6CBA-Tg(HDexon1)62Gpb/2J

Stock No: 004601

 Transgenic

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006494 B6CBA-Tg(HDexon1)62Gpb/3J

### Donating Investigator

Gillian P Bates, University College London, Institute of Neurology

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## GENETIC OVERVIEW

Genetic Background

Generation

### Tg(HDexon1)62Gpb

#### Alele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

## RESEARCH APPLICATIONS

VIEW ALL RESEARCH APPLICATIONS

## [- Detailed Description](#)

This line is transgenic for the 5' end of the human HD gene carrying >(CAG)200 repeat expansions. The CAG repeat is unstable on transmission with a tendency to increase when inherited through the male line. The transgene is ubiquitously expressed. Transgenic mice exhibit a progressive neurological phenotype that mimics many of the features of HD. Onset of phenotype is apparent from approximately 8 weeks of age based on home cage behavior. However, the use of appropriate functional tests indicates the presence of a motor impairment from 5-6 weeks and cognitive impairment from 3 weeks. Epileptic seizures are seen in a small percentage of mice. A failure to gain weight is more pronounced in males than females. Immunohistochemistry with antibodies raised against the N-terminus of huntingtin reveals aggregates in the form of intranuclear inclusions and neuropil aggregates. Commonly known as the "R6/2" strain.

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## [+ Expression Data](#)

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## [+ Control Suggestions](#)

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## [+ Selected References](#)

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## [- Genetics](#)

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## [+ Tg\(HDexon1\)62Gpb](#)

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## [- Disease/Phenotype](#)

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## [+ Disease Terms](#)

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## [+ Research Areas By Phenotype](#)

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## [+ Mammalian Phenotype Terms by Genotype](#)

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## [+ References](#)

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## [- Technical Support](#)

Genotyping Protocols  
Standard PCR: [TG\(HDexon1\)](#), [TG\(YAC\)](#)  
Standard PCR: [Tg\(HDexon1\)62Gpb](#)  
[Genotyping resources and troubleshooting](#)

Mating System  
F1 x Hemizygote

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### LICENSING INFORMATION

Phone: 207-288-6470  
Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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By Allele

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