

## FVB/NJ-Tg(YAC72)2511Hay/J

Stock No: 003640 | YAC72

 Transgenic

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

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pathological changes similar to those of patients with Huntington's Disease.

### Donating Investigator

Michael R Hayden, University of British Columbia

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## GENETIC OVERVIEW

Genetic Background

Generation

### Tg(YAC72)2511Hay

#### Alele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

## RESEARCH APPLICATIONS

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

V I E W   P R I C E   L I S T

## Details

### Detailed Description

Mice homozygous for this transgene are viable and fertile. The human huntingtin transgenic protein is expressed widely in many tissues (identical to the endogenous huntingtin protein), but has highest levels of expression in the brain and testes. Electrophysiological abnormalities can be measured by six months. A behavioral phenotype is first detected at seven months when evidence of mild hyperkinetic movement disorder is noticeable. This disorder is characterized by progressive spontaneous hyperactivity during the dark phase of open field-testing. By 12 months of age selective degeneration of medium spiny neurons in the lateral striatum is observed. This degeneration is associated with the translocation of N-terminal huntingtin fragments to the nucleus. This strain represents a Huntington's Disease mouse model where a mutant full-length human huntingtin is expressed under control of its endogenous promoter.

### Development

### Expression Data

### Control Suggestions

### Selected References

## Genetics

### Tg(YAC72)2511Hay

## 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: [Tg\(YAC72\)2511Hay - \(HDexon1\)](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred to wildtype mice from the colony or to FVB/NJ inbred mice (Stock No. [001800](#)).

[Additional Breeding and Husbandry Support](#)

Citation

When using the YAC72 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #003640 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

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

Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Hemizygous or Non carrier for <a href="#">Tg(YAC72)2511Hay</a>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

FVB/NJ-Tg(YAC72)2511Hay/J

\$2595.00

## PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

## 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.

## Terms Of Use

### TERMS OF USE

[General Terms and Conditions](#)

Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

### ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

## Related Strains

All

By Allele

By Gene

By Collection



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