

B6.129S7-Ube3a^{tm2Alb}/J
Stock No: **017765** | Ube3a^{YFP}

◆ Congenic, Targeted Mutation

Estimated to begin distribution on May 24, 2021

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reporter and may be useful in imaging studies of Angelman syndrome.

Donating Investigator

Dr. Arthur Beaudet, Baylor College of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

N5+pN2
(2020-03-19 00:00:00)

Ube3a^{tm2Alb}

Alele Type

Targeted (Reporter)

Gene Symbol

Ube3a

Gene Name

ubiquitin protein ligase E3A

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

333.51 Domestic price for breeder pair

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

– Details

– Detailed Description

E6-AP:YFP is a *Ube3a* (ubiquitin protein ligase E3A or E6-AP) knockin allele with YFP (Yellow Fluorescent Protein) fused to exon 10 of the *Ube3a* locus. Due to imprinting, E6-AP:YFP is preferentially expressed from the maternal allele at high levels in cortical and hippocampal pyramidal neurons and at lower levels in Purkinje cells and cerebellar neurons. YFP expression from the paternal allele is only faintly detected in these cells. E6-AP:YFP is biallelically expressed in the glial cells lining the lateral ventricles. The fusion protein localizes both to the nucleus and to presynaptic and postsynaptic compartments in cultured hippocampal neurons. These E6-AP:YFP mutant mice carry a maternally imprinted *Ube3a* knockin fluorescent reporter and may be useful in imaging studies of Angelman syndrome.

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

– Genetics

+ *Ube3a*^{tm2Alb}

– 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:[Ube3a-Alternate 2](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

While maintaining a live colony, these mice are bred as heterozygotes. YFP is expressed preferentially through the maternal allele, however, the presence of the Ube3a-YFP allele may have some negative effect on breeding when on the maternal chromosome. The colony can be maintained with the reporter on the paternal chromosome, if it is desirable to use the reporter gene on the maternal chromosome, a female with the reporter on her paternal chromosome (so she has no phenotype) can be bred with a wild-type male. The donating investigator indicates the homozygotes do not breed well.

[Additional Breeding and Husbandry Support](#)

Citation

When using the Ube3a^{YFP} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017765 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX10 \(Standard\)](#)

[- Pricing & Availability](#)



Estimated to begin distribution on May 24, 2021

Available for
Pre-order

Domestic Internatio

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
	Male	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
4 weeks	Female	Wild-type for Ube3a ^{tm2Alb}	\$78.51
	Male	Wild-type for Ube3a ^{tm2Alb}	\$78.51
5 weeks	Female	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
	Male	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
5 weeks	Female	Wild-type for Ube3a ^{tm2Alb}	\$78.51
	Male	Wild-type for Ube3a ^{tm2Alb}	\$78.51
6 weeks	Female	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
	Male	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
6 weeks	Female	Wild-type for Ube3a ^{tm2Alb}	\$78.51
	Male	Wild-type for Ube3a ^{tm2Alb}	\$78.51
7 weeks	Female	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
	Male	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
7 weeks	Female	Wild-type for Ube3a ^{tm2Alb}	\$78.51
	Male	Wild-type for Ube3a ^{tm2Alb}	\$78.51
8 weeks	Female	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
	Male	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
8 weeks	Female	Wild-type for Ube3a ^{tm2Alb}	\$78.51
	Male	Wild-type for Ube3a ^{tm2Alb}	\$78.51
9 weeks	Female	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
	Male	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
9 weeks	Female	Wild-type for Ube3a ^{tm2Alb}	\$78.51
	Male	Wild-type for Ube3a ^{tm2Alb}	\$78.51
10 weeks	Female	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
	Male	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
10 weeks	Female	Wild-type for Ube3a ^{tm2Alb}	\$78.51
	Male	Wild-type for Ube3a ^{tm2Alb}	\$78.51
11 weeks	Female	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
	Male	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
11 weeks	Female	Wild-type for Ube3a ^{tm2Alb}	\$78.51
	Male	Wild-type for Ube3a ^{tm2Alb}	\$78.51

tm2Alb

12 weeks	SEX	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
	Male	Heterozygous for Ube3a ^{tm2Alb}	\$255.00
12 weeks	Female	Wild-type for Ube3a ^{tm2Alb}	\$78.51
	Male	Wild-type for Ube3a ^{tm2Alb}	\$78.51

BREEDER PAIR			
SEX	GENOTYPE		PRICE
Female	Heterozygous for Ube3a ^{tm2Alb}		\$333.51
Male	Wild-type for Ube3a ^{tm2Alb}		

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	B6.129S7-Ube3a<tm2Alb>/J	\$2595.00

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Phone: 207-288-6470

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