

Congenic, Targeted Mutation

Estimated to begin distribution on May 24, 2021

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Help

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

Donating Investigator

Dr. Arthur Beaudet, Baylor College of Medicine

R F A D M O R F +

GENETIC OVERVIEW

Genetic Background Generation

N5+pN2

(2020-03-19 00:00:00)

Ube3a^{tm2Alb}

Allele Type Gene Symbol

Gene Name

Targeted (Reporter)

Ube3a

ubiquitin protein ligase E3A

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools Neurobiology Research Developmental Biology Research

VIEW ALL RESEARCH APPLICATIO

BASE PRICE Starting at:		
\$255.00 Domestic price for female 4-week		
333.51 Domestic price for breeder pair		
	VIEW PRICE LIST	
Details		
 Detailed Description 		
E6-AP:YFP is a <i>Ube3a</i> (ubiquitin protein ligase E3A or E6-AP) knockin allele with YFP (Yellow Fluorescent Protein) fused to exon 10 of the <i>Ube3a</i> 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 biallelicly 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 <i>Ube3a</i> knockin fluorescent reporter and may be useful in imaging studies of Angelman syndrome.		
• Development		
Expression Data		
• Control Suggestions		
• Selected References		

Disease/Phenotype

Genetics

◆ Ube3a^{tm2Alb}

- Disease Terms
 Research Areas By Phenotype
 Mammalian Phenotype Terms by Genotype
 References
- Technical Support

CONTACT TECHNICAL SUPPORT

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





Domestid				
Pricing effective for USA, Canada and Mexico shipping destinations				
LIVE MC	OUSE 	- OFNOTVDE	DDIOE	
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	
0 1100110	Male	Heterozygous for Ube3a	\$255.00	
8 weeks	Female	Wild-type for Ube3a tm2Alb	\$78.51	
O WOONS	Male	Wild-type for Ube3a tm2Alb	\$78.51	
9 weeks	Female	Heterozygous for Ube3a tm2Alb	\$255.00	
9 Weeks	Male	Heterozygous for Ube3a tm2Alb	\$255.00	
Ouveelse		Wild-type for Ube3a		
9 weeks	Female Male	Wild-type for Ube3a tm2Alb	\$78.51 \$78.51	
40				
10 weeks	Female Male	Heterozygous for Ube3a tm2Alb Heterozygous for Ube3a	\$255.00 \$255.00	
	iviale			
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	\$78.51	
	Male	Wild-type for Ube3a tm2Alb	\$78.51	

tm2Alh

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

ВЕ	REEDER 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</tm2alb>	\$2595.00	

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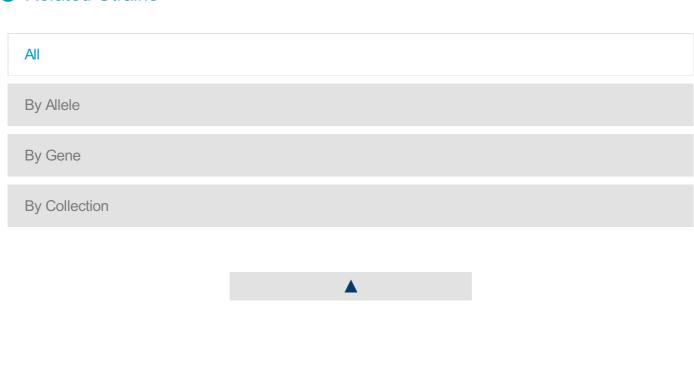
QUESTIONS ABOUT TERMS OF USE

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

Related Strains



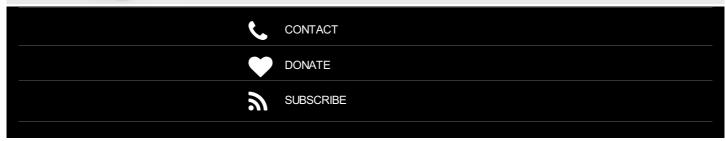




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