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Stock No: 016933 | E-cadherin-mCFP

Congenic, Targeted Mutation



AVAILABLE

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

Overview

Also Known As: E-cadherin-mCFP

E-cadherin-mCFP mice have monomeric cyan fluorescent protein (mCFP) fused to the endogenous cadherin 1 protein (*Cdh1*). These mice are useful for imaging studies in all types of epithelia that express E-cadherin, including crypt cells of the small intestine.

Donating Investigator

Hans Clevers, Hubrecht Institute

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GENETIC OVERVIEW

Genetic Background Generation
N5+N1F8
(2019-10-09 00:00:00)

Cdh1^{tm1Cle}

Allele Type	Gene Symbol	Gene Name
Targeted (Reporter, Null/Knockout)	<i>Cdh1</i>	cadherin 1

V I E W G E N E T I C S

RESEARCH APPLICATIONS

Cell Biology Research
Research Tools

V I E W A L L R E S E A R C H A P P L I C A T I O N S

BASE PRICE

Starting at:

\$278.00 Domestic price for female 4-week

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

Details

Detailed Description

These *Cdh1* (cadherin 1; also called E-cadherin) targeted mutant mice express a monomeric cyan fluorescent protein (mCFP) fused to the endogenous E-cadherin protein. The cDNA of mCFP is targeted to replace the STOP codon in exon 16 of *Cdh1*, preserving the native 3' UTR. This mouse line enables the visualization of all epithelial structures within the mouse. Three dimensional (3D) crypt architecture in the small intestine has been visualized to depths of 125 um. Appropriate expression has also been seen in hair follicles, skin, lung, stomach and colon. The E-cadherin-mCFP fusion protein correctly localizes in the plasma membrane of cells. The fusion strategy results in one extra valine as a linker between E-cadherin and mCFP. These mice are likely to be useful for imaging studies in all types of epithelia that express E-cadherin.

Development

Expression Data

Control Suggestions

+ Selected References

- Genetics

+ *Cdh1^{tm1Cle}*

- Disease/Phenotype

+ Disease Terms

+ Research Areas By Genotype

+ Mammalian Phenotype Terms by Genotype

+ References

- Technical Support

CHAT  OFFLINE

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Probe: [Gt\(rosa\)26sor^{Tm1Sor}Probe](#)
Standard PCR: [Cdh1^{tm1Cle}](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

Breeding Considerations

Homozygotes or heterozygotes may be bred.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the [Fascdh1^{tm1Cle}mCFP](#) mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016933 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [AX18 \(Maximum\)](#)

- Pricing & Availability



Live mice available in varying quantities. Ask Customer Service for details.

Available

Live Mouse			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
	Male	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
5 weeks	Female	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
	Male	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
6 weeks	Female	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
	Male	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
7 weeks	Female	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
	Male	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
8 weeks	Female	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
	Male	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
9 weeks	Female	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
	Male	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
10 weeks	Female	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
	Male	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
11 weeks	Female	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
	Male	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
12 weeks	Female	Homozygous for Cdh1 ^{tm1Cle}	\$278.00
	Male	Homozygous for Cdh1 ^{tm1Cle}	\$278.00

Related Products and Services

Frozen Mouse Embryo	B6.129P2(Cg)-Cdh1 ^{<tm1Cle>} /J Frozen Embryo	\$2595.00
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suggest ordering and performing tests on a small number of mice to determine suitability for your particular project.

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Terms of Use

[General Terms and Conditions](#)

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