



# C57BL/6rJ-<sup>hCR1</sup>(CR2,CR1)How/HowJ

Stock No: 027713 | hCR1 KI

Coisogenic, Congenic, Targeted Mutation



CRYORECOVERY

PLACE ORDER

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



# MODEL-AD

Model Organism Development & Evaluation for Late-Onset Alzheimer's Disease

## Also Known As: hCR1 KI

These knock-in knock-out mice express human *CR2* and *CR1* (and intergenic region between the genes) from the endogenous mouse *Cr2* locus; the *CR1* sequence contains floxed exons 4 through 20 and FRT site flanked exons 13 through 20. When crossed to a FLP recombinase expressing strain, the resulting offspring will have exons 13 through 20 of the human *CR1* gene deleted in the FLP-expressing tissues. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exons 4 through 20 of the human *CR1* gene deleted in the *cre*-expressing tissues.

## Donating Investigator

Gareth Howell, JAX

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## GENETIC OVERVIEW

Genetic Background      Generation

*Cr2<sup>tm1(CR2,CR1)How</sup>*

Allele Type	Gene Symbol	Gene Name
Targeted (Inserted expressed sequence)	<i>Cr2</i>	complement receptor 2

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

## Details

### Detailed Description

These knock-in knock-out mice carry human *CR2*, complement C3d receptor 2, gene sequence with an attB-PGKneo-attP cassette in intron 19, followed by the intergenic region between the human *CR2* and *CR1* genes, and human *CR1*, complement C3b/C4b receptor 1 (Knops blood group), gene sequence (with a *loxP* site inserted into intron 3, a FRT site inserted into intron 12 and *loxP* and FRT sites inserted into intron 20), inserted at the ATG initiation codon of the mouse *Cr2* gene. When crossed to a FLP recombinase expressing strain, the resulting offspring will have exons 13 through 20 of the human *CR1* gene deleted in the FLP-expressing tissues. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exons 4 through 20 of the human *CR1* gene deleted in the *cre*-expressing tissues.

Removal of the floxed (or FRT site) flanked sequence creates a null allele, as confirmed by western blot analysis.

*CR2* and *CR1* encode receptors for Epstein-Barr virus. The *CR1* gene is an Alzheimer's disease susceptibility locus.

### Development

### Control Suggestions

## Genetics

### *Cr2*<sup>tm1(CR2,CR1)How</sup>

## Disease/Phenotype

### Disease Terms

### Research Areas By Genotype

### Mammalian Phenotype Terms by Genotype

### References

## Technical Support

TECHNICAL SUPPORT CHAT

CONTACT TECHNICAL SUPPORT

### Genotyping Protocols

Standard PCR: [Tg\(hCR1\)](#)

Standard PCR: [Cr2<sup>tm1\(CR2,CR1\)How</sup>](#)

[Genotyping resources and troubleshooting](#)

## Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

## Mating System

Heterozygote x Heterozygote

## Citation

When using the hGR1-KJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #027713 in your Materials and Methods section.

[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	GENOTYPE	PRICE
Cryo Recovery	Heterozygous or wildtype for Cr2<tm1(CR1,CR2)How>	\$2,854.50

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a [Dedicated Supply](#) for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

### Related Products and Services

Frozen Mouse Embryo	<a href="#">C57BL/6J-Cr2&lt;tm1(CR2CR1)How&gt;/HowJ</a>	\$2595.00
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## ← Terms Of Use

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