

**B6;129S6-Rr24<sup>tm1Axvi</sup>/Mmjax**

MMRRC Stock No: **36894-JAX**

 Targeted Mutation

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In this knockout of the non-coding enhancer element (*Rr24* or HS586), mRNA expression of *Isl1* in mouse embryos is diminished and adult skulls exhibit significant differences in skull morphology. This strain may be useful for downstream analysis of craniofacial development.

### Donating Investigator

Axel Visel, Lawrence Berkeley National Laboratory

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## GENETIC OVERVIEW

Genetic Background

Generation

*Rr24<sup>tm1Axvi</sup>*

**Allele Type**

Targeted (Null/Knockout,  
Modified regulatory region)

**Gene Symbol**

*Rr24*

**Gene Name**

regulatory region 24

VIEW GENETICS

## RESEARCH APPLICATIONS

Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

## Details

### Detailed Description

The regulatory region 2 (*Rr24* or HS586) is a non-coding enhancer element that controls expression of *Isl1* (ISL1 transcription factor, LIM/homeodomain), a gene involved in craniofacial development. qPCR analysis indicates a 1.3 fold down regulation of *Isl1* in homozygous HS586 E11.5 and E13.5 embryos. Analysis of the adult skulls from homozygous mice by micro-computed tomography reveals a mild difference in skull morphology compared to wild type. This strain may be useful for downstream analysis of craniofacial development.

### Development

### Control Suggestions

## Genetics

### *Rr24*<sup>tm1Axi</sup>

## 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

Separated PCR:[Rr24alternate1](#)

Separated PCR:[Rr23Alternate 1](#)

[Genotyping resources and troubleshooting](#)

## Breeding Considerations

While maintaining a live colony, these mice are bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

### Mating System

Homozygote x Homozygote

### Citation

When using the B6;129S6-*Rr24<sup>tm1Axxi</sup>*/Mmjax mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #36894 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](#)*

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## LICENSING INFORMATION

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