The Jackson Laboratory

(STOCK Rb(6.16)24Lub x STOCK Rb(16.17)7Bnr)F1/J

Stock No: **001887**

Chromosome Aberration, Robertsonian

Please contact Technical Support for more information

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GENETIC OVERVIEW

Genetic Background	Generation

Marker(s)

Marker Symbol	Marker Name
Rb(6.16)24Lub	Robertsonian translocation, Chr 6 and 16, Lubeck 24
Rb(16.17)7Bnr	Robertsonian translocation, Chr 16 and 17, Universitat Bonn/Rhein 7
Rb(6.16)24Lub	Robertsonian translocation, Chr 6 and 16, Lubeck 24

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research
Research Tools
Neurobiology Research

VIEW ALL RESEARCH APPLICATIO

Details

Detailed Description

This F1 hybrid is produced by crossing a female of strain STOCK Rb(6.16)24Lub (Stock No. 000885) with a male of strain STOCK Rb(16.17)7Bnr (Stock No. 000615). The maternal parental strain (Stock No. 000885) is homozygous for the Robertsonian chromosome Rb(6.16)24Lub. The paternal parental strain (Stock No. 000615) is homozygous for the Robertsonian chromosome Rb(6.16)24Lub. The F1 hybrid is heterozygous for each of these Robertsonian chromosomes. This F1 hybrid is used to produce Chromosome 16 trisomy (Ts16) embryos, which have many of the fetal developmental features of Down Syndrome, by mating to usually C57BL/6J mice. Mice heterozygous for two Robertsonian chromosomes with a chromosome in common (monobrachial homology), when mated to mice with a normal 40 acrocentric karyotype, produce a higher than background frequency of trisomy selectively for the chromosome that the Robertsonians have in common.

Genetics

- Rb(6.16)24Lub
- Rb(16.17)7Bnr
- Rb(6.16)24Lub

Disease/Phenotype

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

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Genotyping resources and troubleshooting

Appearance

dark agouti
Related Genotype: $Mc1r^{E\text{-}tob}$ /$Mc1r^{E\text{-}tob}$

Terms Of Use

TERMS OF USE

General Terms and Conditions

QUESTIONS ABOUT TERMS OF USE

LICENSING INFORMATION

Phone: 207-288-6470
Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection

▲

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