Wellcome Trust Sanger Institute
Wellcome Trust Genome Campus
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FlpeR (FLPT)

Allele: *ROSA26*^{Fki}

Embryonic stem cell targeted: JM8.F6
Embryonic stem cell origin: C57BL/6N
Background used for Germ Line Transmission: C57BL/6N
Subsequent backcross background: C57BL/6N and Inter cross from within Colony.
Genetic background: C57BL/6N

Coat Colour Information:

Black

Breeding Performance and Lifespan:

- Generally heterozygous mice from this colony conform to normal expectations of the background strain.
  For maintenance of our colonies we pay particular attention to the age of the mating pairs and the resulting litters. In our experience the C57BL/6N substrain used to establish and progress this colony has shown some characteristics such as poor breeding, high pre-weaning mortality rates and failure to breed beyond three litters. We believe disturbance of litters has a detrimental effect on the mating pair. For our core and mutant colonies we have actively reduced our intervention with the mice. Daily observations, health checks, cleaning and cage movement is minimised in litters under 14 days of age.
- Homozygous Viable.

Bedding:

Aspen Chip derived from a Baltic supply – Supplier B&K Universal

Diet:

Autoclavable Mouse Breeder Diet 5021 – A controlled constant-nutrient diet formulated to compensate for nutrient losses that occur during steam sterilization. Supplier Lab Diet www.labdiet.com

Husbandry:

Cleaning frequency is based against cage numbers. Base changing is performed in a HEPA filtered change station which remains positive to the room environment. Gloved hands are disinfected between each cage. Diet is fed ad-libertum.

Housing System:

Individual Ventilated Cages maintained at positive pressure to the room with an average of 60 HEPA filtered air changes per hour.

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Sanger MGP mutant mouse lines are mouse lines in development; information about breeding and phenotyping characteristics may be incomplete.

As the mutant mouse strains progress through the Sanger MGP primary phenotypic characterisation, the information gathered may be viewed through the International Mouse Phenotyping Consortium (IMPC; www.mousephenotype.org).

Information supplied here is current as of the date indicated below.
Please consult the IMPC for progressive updates on colony information such as Viability at weaning, Fertility, General Observations.
Contact MGPEnquiries@sanger.ac.uk

Phenotype enquiries may be made through the contact MGPEnquiries@sanger.ac.uk .

Details of the colony quality control tests performed for a specific mouse line may be observed through the International Mouse Phenotyping Consortium (IMPC; www.mousephenotype.org), searching for your gene and follow the link from 'Product Details' for the mouse strain of interest.

General Descriptions of the mouse strain quality control (QC) assays.
www.i-dcc.org/kb/25

General information about structure of IMPC alleles and their derivatives
www.mousephenotype.org/martsearch_ikmc_project/about/targeting-strategies

Guidelines for converting alleles
www.i-dcc.org/kb/entry/105

International Mouse Phenotyping Consortium (IMPC) Mouse Resources
www.mousephenotype.org

IKMC Knowledgebase
www.i-dcc.org/kb

Reference

Farley FW, Soriano P, Steffen LS, Dymecki SM. (2000). Widespread recombinase expression using FLPeR (flipper) mice. *Genesis*, **28** (3-4), 106-110.

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