Wellcome Trust Sanger Institute
Wellcome Trust Genome Campus
Hinxton Cambridge CB10 1SA, U.K.

mouseinterest@sanger.ac.uk
www.sanger.ac.uk

Ctcf (MAAV; EPD0028_4_B04)

Allele: *Ctcf* *tm1a(EUCOMM)Wtsi*

Embryonic stem cell targeted: JM8N4
Embryonic stem cell origin: C57BL/6N
Background used for Germ Line Transmission: C57BL/6J-Tyr^{cBrd}
Subsequent backcross background: C57BL/6N Taconic USA then intercross from within the colony.
Genetic background: C57BL/6N Taconic USA; C57BL/6J-Tyr^{cBrd} ; C57BL/6N

Coat Colour Information:

Due to the presence of the mutation within the Tyrosinase gene of the C57BL/6J-Tyr^{C-Brd} colony used during the initial confirmation of germline transmission any intercrossing has the potential to produce albino offspring.

Black and Albino

Breeding Performance and Lifespan:

- Generally heterozygous mice from this colony conform to normal expectations of the background strain.
- Viability at Weaning - Undetermined.
- Our current preferred pairing system is Heterozygous males x Wild type females.

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 occupancy and technician assessed level of soiling. 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-libitum.

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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Further Information

Whilst all reasonable effort is made to verify the mouse line and verify the individual mouse genotype at shipment, we recommend this is confirmed by the recipient.

The heterozygous/homozygous genotype for this strain has phenotypic observations noted on the following:

Recessive Lethal Study
General Observations

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 Sanger Mouse Portal (www.sanger.ac.uk/mouseportal)

Information supplied here is current as of the date indicated below.
Please consult the Sanger MGP Mouse Resource Portal for progressive updates on colony information such as Viability at weaning, Fertility, General Observations.

Early notification on phenotyping data may be received by subscribing to the MGP-Early-Phenotyping-Alert.

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

Information regarding availability of knockout mouse resources may be queried at the International Knockout Mouse Consortium (IKMC; www.knockoutmouse.org).

Information relating to the knockout programmes may be found at the IKMC Knowledgebase (www.knockoutmouse.org/kb).

Information about targeting strategies may also be found at the IKMC website (www.knockoutmouse.org/about/targeting-strategies).

Details of the colony quality control tests performed for a specific mouse line may be observed through the International Knockout Mouse Consortium website (IKMC; www.knockoutmouse.org), searching for your target of interest and following the 'Details' and 'View this project' links. The allele map may also be viewed here.

Descriptions of the standard colony quality control assays may be found at the IKMC Knowledgebase (www.knockoutmouse.org/kb/25)

References

Skarnes, W. C., Rosen, B., West, A. P., Koutsourakis, M., Bushell, W., Iyer, V., Mujica, A. O., Thomas, M., Harrow,J., Cox, T., Jackson, D., Severin, J., Biggs, P., Fu, J., Nefedov, M., de Jong, P. J., Stewart, A. F. & Bradley, A. (2011). A conditional knockout resource for the genome-wide study of mouse gene function. *Nature*, 474, 337-342.

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