

# Tfam-Flox

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|--------|---|
| 系統名    | C57BL/6Smoc- <i>Tfam</i> <sup>tm1(flox)Smoc</sup> |
| SMOC番号 | NM-CKO-200173                                     |
| 維持形態   | Repository Live                                   |

## 遺伝子の概要

|                     |                       |                                    |
|---------------------|-----------------------|------------------------------------|
| Gene Symbol<br>Tfam | <b>Synonyms</b>       | Hmgt5; mtTFA; tsHMG; AI661103      |
|                     | <b>NCBI ID</b>        | <a href="#">21780</a>              |
|                     | <b>MGI ID</b>         | <a href="#">107810</a>             |
|                     | <b>Ensembl ID</b>     | <a href="#">ENSMUSG00000003923</a> |
|                     | <b>Human Ortholog</b> | TFAM                               |

## 説明

These mice carry loxP sites flanking exon 10-13 of *Tfam* gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of *Tfam* gene.

**応用分野:** Activated PKN1 stimulates the transcription of AR (androgen receptor) regulatory genes *KLK2* and *KLK3* and related research on mitochondrial gene expression

\*Literature published using this strain should indicate: *Tfam*-Flox mice (Cat. NO. NM-CKO-200173) were purchased from Shanghai Model Organisms Center, Inc..

## 病気の予測

|                     |             |   |
|---------------------|-------------|---|
| Parkinson's Disease | <b>表現型</b>  | <a href="#">MGI:3702932</a><br>Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with <i>Slc6a3</i> -cre mice.  |
|                     | <b>参考文献</b> | Ekstrand MI, Terzioglu M, Galter D, Zhu S, Hofstetter C, Lindqvist E, Thams S, Bergstrand A, Hansson FS, Trifunovic A, Hoffer B, Cullheim S, Mohammed AH, Olson L, Larsson NG, Progressive parkinsonism in mice with respiratory-chain-deficient dopamine neurons. <i>Proc Natl Acad Sci U S A</i> . 2007 Jan 23;104(4):1325-30 |

|                              |             |  |
|------------------------------|-------------|--|
| <b>Kearns-Sayre Syndrome</b> | <b>表現型</b>  | <a href="#">MGI:2177634</a><br>Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Ckmm-cre mice.   |
|                              | <b>参考文献</b> | Wang J, Wilhelmsson H, Graff C, Li H, Oldfors A, Rustin P, Bruning JC, Kahn CR, Clayton DA, Barsh GS, Thoren P, Larsson NG, Dilated cardiomyopathy and atrioventricular conduction blocks induced by heart-specific inactivation of mitochondrial DNA gene expression. Nat Genet. 1999 Jan;21(1):133-7 |

### 表現型データ

No data