Overview

This wild-derived inbred strain may be useful for genetic mapping studies.

GENETIC OVERVIEW

Genetic Background

F111+F1
(2019-06-12 00:00:00)

RESEARCH APPLICATIONS

Research Tools
Reproductive Biology Research

BASE PRICE
PWK was derived from wild mice trapped near Prague, Czech Republic. PWK has a biochemical profile that is similar to the inbred strain PWD (also originating from the Czech Republic - Stock No. 004660) with the exception of the isoenzyme variant esterase 13 (Es13). Wild-derived mice are genetically distinct from common laboratory mice for a number of complex phenotypic characteristics and are valuable tools for genetic mapping, evolution and systematics research.

In 2019-2020, researchers at The Jackson Laboratory discovered this inbred strain contains the Trem2S148E allele - a naturally occurring variant at position 48351151-48351152 on Chr 17 (rs108080490 and rs107649577; Ensembl GRCm38.p6). This TC to GA transition results in a serine to glutamic acid substitution at amino acid 148 (S148E).

Genotyping Protocols
Genotyping resources and troubleshooting
Mating System
Sibling x Sibling
Appearance
agouti
Related Genotype: A/A

Citation
When using the PWK/PhJ mouse strain in a publication, please include JAX stock #003715 in your Materials and Methods section.

Related Products and Services
Frozen Mouse Embryo

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- No