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

**GENETIC OVERVIEW**

**Genetic Background**
- PWK/PhJ

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

**RESEARCH APPLICATIONS**

- Research Tools
- Reproductive Biology Research

**BASE PRICE**

- Starting at: $218.00 Domestic price for female 5-week
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 \(Trem2^{S148E}\) 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.

Animal Health Reports
Facility Barrier Level Descriptions

 AX18 (Maximum)

Pricing & Availability

Live mice available in varying quantities. Ask Customer Service for details.

Live Mouse

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

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains