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

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td></td>
<td>F111+F1</td>
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**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 \textit{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

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

Domestic / International
Pricing effective for USA, Canada and Mexico shipping destinations

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<th>AGE</th>
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Related Products and Services
Frozen Mouse Embryo PWK/PhJ $2595.00
Payment Terms and Conditions
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Email: TechTran@jax.org
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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains