

# Resource Summary Report

Generated by [kravitz2](#) on Sep 19, 2026

## FVB/N-Tg(PAI1-lacZ)1Jjb/J

RRID:IMSR\_JAX:003140

Type: Organism

### Proper Citation

RRID:IMSR\_JAX:003140

### Organism Information

**URL:** <https://www.jax.org/strain/003140>

**Proper Citation:** RRID:IMSR\_JAX:003140

**Description:** Mus musculus with name FVB/N-Tg(PAI1-lacZ)1Jjb/J from IMSR.

**Species:** Mus musculus

**Synonyms:** FVB/N-TgN(PAI1LacZ)1Jjb

**Notes:** gene symbol note: transgene insertion 1; Joseph J Billadello|beta-galactosidase|SERPINE1 mRNA binding protein 1; coisogenic strain|mutant strain: Tg(PAI1-lacZ)1Jjb|lacZ|SERBP1

**Affected Gene:** transgene insertion 1; Joseph J Billadello|beta-galactosidase|SERPINE1 mRNA binding protein 1

**Genomic Alteration:** transgene insertion 1; Joseph J Billadello

**Catalog Number:** JAX:003140

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** embryo

**Organism Name:** FVB/N-Tg(PAI1-lacZ)1Jjb/J

**Record Creation Time:** 20250513T053637+0000

**Record Last Update:** 20260919T054827+0000

### Ratings and Alerts

No rating or validation information has been found for FVB/N-Tg(PAI1-lacZ)1Jjb/J.

No alerts have been found for FVB/N-Tg(PAI1-lacZ)1Jjb/J.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** JAX Mice and Services

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## Usage and Citation Metrics

We found 17 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [kravitz2](#) .

Furon J, et al. (2023) Blood tissue Plasminogen Activator (tPA) of liver origin contributes to neurovascular coupling involving brain endothelial N-Methyl-D-Aspartate (NMDA) receptors. *Fluids and barriers of the CNS*, 20(1), 11.

Jiang CS, et al. (2023) Aging, Plasminogen Activator Inhibitor 1, Brain Cell Senescence, and Alzheimer's Disease. *Aging and disease*, 14(2), 515.

Castorena-Gonzalez JA, et al. (2022) Lymphatic Valve Dysfunction in Western Diet-Fed Mice: New Insights Into Obesity-Induced Lymphedema. *Frontiers in pharmacology*, 13, 823266.

Liu S, et al. (2020) Transplantation of adipose tissue lacking PAI-1 improves glucose tolerance and attenuates cardiac metabolic abnormalities in high-fat diet-induced obesity. *Adipocyte*, 9(1), 170.

Wang L, et al. (2018) PAI-1 Exacerbates White Adipose Tissue Dysfunction and Metabolic Dysregulation in High Fat Diet-Induced Obesity. *Frontiers in pharmacology*, 9, 1087.

Shioya S, et al. (2018) Plasminogen activator inhibitor-1 serves an important role in radiation-induced pulmonary fibrosis. *Experimental and therapeutic medicine*, 16(4), 3070.

Tucker TA, et al. (2016) Organizing empyema induced in mice by *Streptococcus pneumoniae*: effects of plasminogen activator inhibitor-1 deficiency. *Clinical and translational medicine*, 5(1), 17.

Luo M, et al. (2016) Hyperglycaemia-induced reciprocal changes in miR-30c and PAI-1 expression in platelets. *Scientific reports*, 6, 36687.

Reichel CA, et al. (2015) Components of the plasminogen activation system promote engraftment of porous polyethylene biomaterial via common and distinct effects. *PLoS one*, 10(2), e0116883.

Chen N, et al. (2015) Bevacizumab promotes venous thromboembolism through the induction of PAI-1 in a mouse xenograft model of human lung carcinoma. *Molecular*

cancer, 14, 140.

Bhandary YP, et al. (2015) Plasminogen activator inhibitor-1 in cigarette smoke exposure and influenza A virus infection-induced lung injury. PloS one, 10(5), e0123187.

Kenny S, et al. (2013) Gastric expression of plasminogen activator inhibitor (PAI)-1 is associated with hyperphagia and obesity in mice. Endocrinology, 154(2), 718.

Wolthuis EK, et al. (2011) Plasminogen activator inhibitor-type I gene deficient mice show reduced influx of neutrophils in ventilator-induced lung injury. Critical care research and practice, 2011, 217896.

Li LF, et al. (2009) Unfractionated heparin and enoxaparin reduce high-stretch ventilation augmented lung injury: a prospective, controlled animal experiment. Critical care (London, England), 13(4), R108.

Hoover-Plow J, et al. (2006) Genetic background determines response to hemostasis and thrombosis. BMC blood disorders, 6, 6.

Askari AT, et al. (2003) Myeloperoxidase and plasminogen activator inhibitor 1 play a central role in ventricular remodeling after myocardial infarction. The Journal of experimental medicine, 197(5), 615.

Masson V VÉ, et al. (2002) Mouse Aortic Ring Assay: A New Approach of the Molecular Genetics of Angiogenesis. Biological procedures online, 4, 24.