

Resource Summary Report

Generated by SPARC SAWG on Aug 9, 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: SERPINE1 mRNA binding protein 1|beta-galactosidase|transgene insertion 1; Joseph J Billadello; coisogenic strain|mutant strain: SERBP1|lacZ|Tg(PAI1-lacZ)1Jjb

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

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: 20260808T050839+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.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

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.

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.

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.

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.