

Resource Summary Report

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

[Smad4^{tm1Mak}/Smad4^{tm1Mak}](#)

RRID:MGI:2182741

Type: Organism

Proper Citation

RRID:MGI:2182741

Organism Information

URL:

Proper Citation: RRID:MGI:2182741

Description: Allele Detail: Targeted This is a legacy resource.

Species: Mus musculus

Notes: Allele Detail: Targeted This is a legacy resource.

Phenotype: failure to gastrulate, embryonic growth arrest, decreased cell proliferation, abnormal embryonic-extraembryonic boundary morphology, abnormal mesoderm development, failure of primitive streak formation, embryonic lethality between implantation and somite formation, complete penetrance, decreased embryo size, abnormal visceral endoderm morphology, abnormal ectoderm development, absent mesoderm, disorganized extraembryonic tissue, rostral body truncation, abnormal embryonic tissue morphology

Affected Gene: Smad4

Genomic Alteration: tm1Mak

Catalog Number: 2182741

Background: either: (involves: 129P2/OlaHsd * C57BL/6J) or (involves: 129P2/OlaHsd * C57BL/6J * CD-1)

Database: MGI, Mouse Genome Informatics MGI

Database Abbreviation: MGI

Availability: Availability unknown check source stock center

Source References: [PMID:9420335](#)

Organism Name: Smad4^{tm1Mak}/Smad4^{tm1Mak}

Record Creation Time: 20240120T190749+0000

Record Last Update: 20240130T202107+0000

Ratings and Alerts

No rating or validation information has been found for Smad4^{tm1Mak}/Smad4^{tm1Mak}.

No alerts have been found for Smad4^{tm1Mak}/Smad4^{tm1Mak}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: MGI, Mouse Genome Informatics MGI

Usage and Citation Metrics

We have not found any literature mentions for this resource.