

Resource Summary Report

Generated by [NIF](#) on Jul 28, 2026

[p?sat](#)

RRID:Addgene_39238

Type: Plasmid

Proper Citation

RRID:Addgene_39238

Plasmid Information

URL: <http://www.addgene.org/39238>

Proper Citation: RRID:Addgene_39238

Insert Name: 8 copies of the 234bp mouse ?-satellite repeat

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:11114330](#)

Vector Backbone Description: Backbone Size:3806; Vector Backbone:low copy pBluescript; Vector Types:Cloning vector; Bacterial Resistance:Ampicillin

Comments: The four satellite repeats, which are duplicated in the construct, were generated by PCR from mouse DNA, so they represent a native mouse satellite array. The sequence is a consensus, however deviation from the consensus sequence ranging from 0.9 to 9.1% (mean deviation 3.9%) has been reported. The construct is mainly used as a FISH probe for visualising pericentromeric regions in mouse cells and this is unlikely to be affected by minor sequence variations. Another important point about this construct is that contains 8 direct repeats and the 234 bp satellite sequence also contains internal repeats. This will make it prone to rearrangements when it is grown up for isolation, which means that it will be difficult to completely guarantee its integrity. For reference please see - Vissel, B. and Choo KH. (1989). Mouse major (gamma) satellite DNA is highly conserved and organised into extremely long tandem arrays: Implications for recombination between non-homologous chromosomes. Genomics 5, 407-414.

Plasmid Name: p?sat

Record Creation Time: 20220422T222205+0000

Record Last Update: 20260725T074634+0000

Ratings and Alerts

No rating or validation information has been found for p?sat.

No alerts have been found for p?sat.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Sandoval R, et al. (2024) Mammalian RNAi represses pericentromeric lncRNAs to maintain genome stability. bioRxiv : the preprint server for biology.

Chomiak AA, et al. (2022) Nde1 is required for heterochromatin compaction and stability in neocortical neurons. iScience, 25(6), 104354.

Novo CL, et al. (2022) Satellite repeat transcripts modulate heterochromatin condensates and safeguard chromosome stability in mouse embryonic stem cells. Nature communications, 13(1), 3525.

Hsieh CL, et al. (2020) MIWI prevents aneuploidy during meiosis by cleaving excess satellite RNA. The EMBO journal, 39(16), e103614.