

Product datasheet for MR218438L4V

OriGene Technologies, Inc.

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Aanat (NM_009591) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: Aanat (NM_009591) Mouse Tagged ORF Clone Lentiviral Particle

Symbol: Aanat

Synonyms: AA-NAT; Na; Nat; Nat-2; Nat4; S; Snat

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

Tag: mGFP

ACCN: NM_009591

ORF Size: 618 bp

ORF Nucleotide

Sequence:

The ORF insert of this clone is exactly the same as(MR218438).

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through

naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

RefSeg: NM 009591.3, NP 033721.1

RefSeq Size: 1370 bp
RefSeq ORF: 618 bp
Locus ID: 11298
UniProt ID: 088816

Cytogenetics: 11 E2







Gene Summary:

The protein encoded by this gene belongs to the acetyltransferase superfamily. It is the penultimate enzyme in melatonin synthesis and controls the night/day rhythm in melatonin production in the vertebrate pineal gland. Melatonin is essential for the function of the circadian clock that influences activity and sleep. This enzyme is regulated by cAMP-dependent phosphorylation that promotes its interaction with 14-3-3 proteins and thus protects the enzyme against proteasomal degradation. This gene may contribute to numerous genetic diseases such as delayed sleep phase syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2010]