

# Product datasheet for MR218438

### Aanat (NM\_009591) Mouse Tagged ORF Clone

#### **Product data:**

#### OriGene Technologies, Inc.

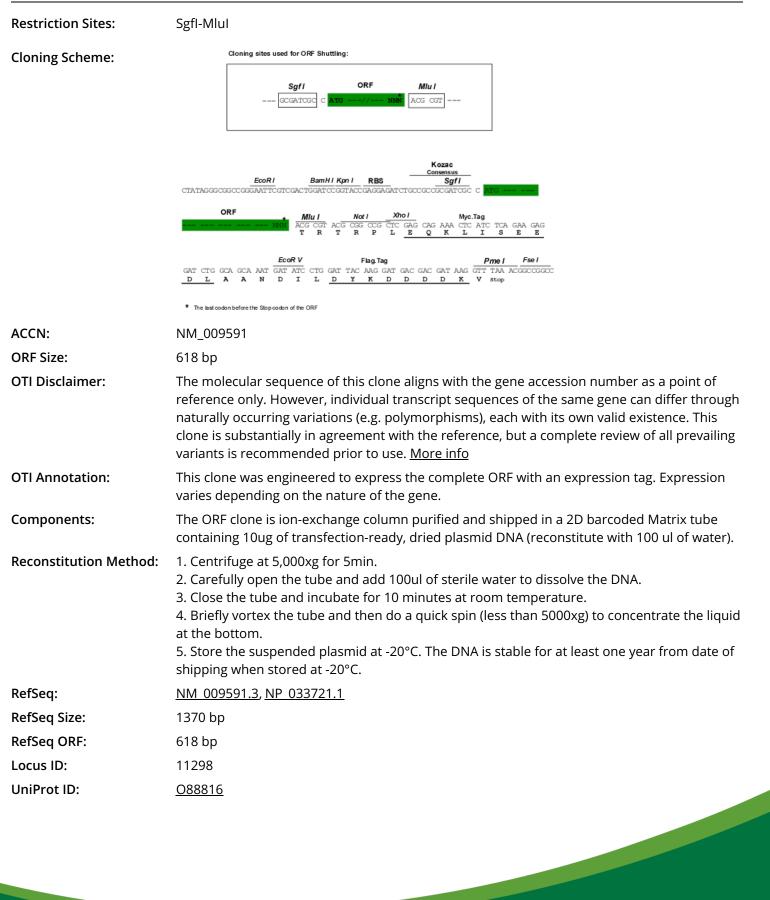
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Product Type:	Expression Plasmids
Product Name:	Aanat (NM_009591) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aanat
Synonyms:	AA-NAT; Na; Nat; Nat-2; Nat4; S; Snat
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;MR218438 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTTGAACATCAACTCCCTGAAACCTGAGGCCCTGCACCTGCCACTTGGGACCTCAGAGTTCCTAGGCT GCCAGCGGCGCCACACACTCCCTGCCAGTGAGTTCCGCTGCCTCACACCTGAGGATGCCACCAGTGCGTT TGAGATTGAGCGGGAAGCCTTTATCTCTGTCTCCGGTACCTGTCCCCTCTACTTGGATGAGATCCGGCAC TTCCTAACCCTGTGTCCAGAGCTGTCACTGGGCTGGTTTGAGGAAGGCTGCCTTGTGGCCTTCATCATTG GCTCGCTGTGGGACAAGGAGAGACTTACTCAGGAGTCGCTGACACTACACAGGCCCGGAAGGCCGCACAGC CCACCTGCACGTACTGGCGGTGCACAGAACCTTCCGGCAGCAGGGCAAGGGCTCTGTCCTCTGTGGAGA TACCTTCACCACCTGGGCAGTCAGCCGGCCGTGCGCCGGGCGTGTGCTCATGTGTGAGGATGCCCTGGTAC CCTTCTATGAGAAATTTGGCTTCCAGGCCGTGTGGCCCATGTGCCACCATGTGTGAGGATGCCCTGGTAC GGAGCTACAGTGTTCCTTACGATGCCACGCCTTCCTGCGCAGGAACAGCGGCTGC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR218438 protein sequence Red=Cloning site Green=Tags(s)
	MLNINSLKPEALHLPLGTSEFLGCQRRHTLPASEFRCLTPEDATSAFEIEREAFISVSGTCPLYLDEIRH FLTLCPELSLGWFEEGCLVAFIIGSLWDKERLTQESLTLHRPGGRTAHLHVLAVHRTFRQQGKGSVLLWR YLHHLGSQPAVRRAVLMCEDALVPFYEKFGFQAVGPCAITVGSLTFTELQCSLRCHAFLRRNSGC
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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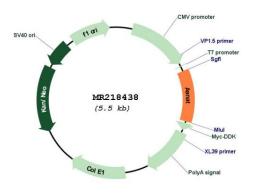




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	Aanat (NM_009591) Mouse Tagged ORF Clone – MR218438
Cytogenetics:	11 E2
MW:	23.1 kDa
Gene Summary:	The protein encoded by this gene belongs to the acetyltransferase superfamily. It is the penultimate enzyme in melatonin synthesis and controls the 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]

## Product images:



Circular map for MR218438

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