

## Product datasheet for **RG236637**

### **NAA40 (NM\_001300800) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NAA40 (NM_001300800) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NAA40
Synonyms:	hNatD; NAT11; NatD; PATT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236637 representing NM_001300800. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGATGCCGTTTGTGCCAAAGTGGACGCTGCCAACAGGCTTGGAGACCCTCTGGAGGCTTCCCAGTG
TTCAAGAAATATGATAGAAACGGGTTGAATGTCTCCATTGAATGTAAGCGAGTGTCTGGACTGGAGCCA
GCCACCGTGGATTGGGCCTTCGACCTGACCAAAACGAATATGCAAACCATGTATGAGCAGAGCGAGTGG
GGCTGGAAGGACCGAGAGAAACGGGAGGAAATGACAGATGACCGAGCCTGGTACCTCATCGCGTGGGAA
AACAGCTCCGTCCCTGTTGCCTTTCTCACTTCCGTTTGACGTGGAGTGTGGGGATGAAGTCCTGTAC
TGCTATGAAGTGCAGTTGAAAGCAAGGTGCGGCGAAAGGCCTGGGGAAGTTCCTCATAAGATCCTG
CAGCTCATGGCCAACAGCACACAGATGAAGAAGTTATGTTAACAGTATTTAAACACAATCATGGTGCC
TACCAGTCTTTCAGAGAAGCGTTGCAATTTGAAATTGATGACTCTTCCCCAGCATGTCCGGTTGCTGT
GGGAGGATTGCTCCTATGAGATCCTGAGCCGGAGGACCAAGTTTGGGACAGCCATCACTCCCACGGC
GGTGGGCACTGTGGTGGCTGCTGCCAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG236637  
 Blue=ORF Red=Cloning site Green=Tag(s)

MDAVCAKVDAANRLGDPLEAFPVFKKYDRNGLNVSIECKRVSGLEPATVDWAFDLTKTNMQTMYEQSEW  
 GWKDREKREEMTDDRAWYLIAWENSSVPVAFSHFRFDVECGDEVLYCYEVQLESKVRRKGLGKFLIQIL  
 QLMANSTQMKKVMLTVFKHNHGAYQFFREALQFEIDSSPSSMSGCCGEDCSYEILSRRTKFGDSSHSHA  
 GGHCGGCCH  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIIGDFKVMGTGFPEP  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001300800

**ORF Size:** 648 bp

**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.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**RefSeq:** [NM\\_001300800.1](#), [NP\\_001287729.1](#)

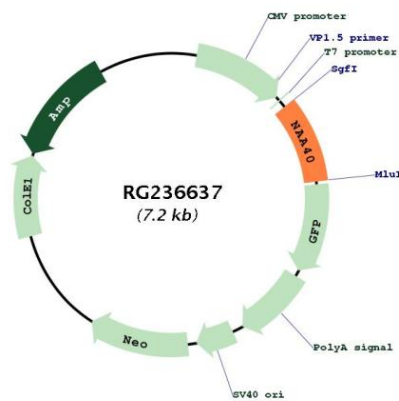
**RefSeq Size:** 3752 bp

**RefSeq ORF:** 651 bp

**Locus ID:** 79829  
**UniProt ID:** [Q86UY6](#)  
**Cytogenetics:** 11q13.1  
**MW:** 25.2 kDa

**Gene Summary:** N-alpha-acetyltransferase that specifically mediates the acetylation of the N-terminal residues of histones H4 and H2A (PubMed:21935442, PubMed:25619998). In contrast to other N-alpha-acetyltransferase, has a very specific selectivity for histones H4 and H2A N-terminus and specifically recognizes the 'Ser-Gly-Arg-Gly sequence' (PubMed:21935442, PubMed:25619998). Acts as a negative regulator of apoptosis (PubMed:26666750). May play a role in hepatic lipid metabolism (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG236637