

## Product datasheet for **RG208314**

### **NAA40 (NM\_024771) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NAA40 (NM_024771) 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:	>RG208314 representing NM_024771 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAGAAAGTCAAGCAAAGCCAAGGAGAAGAAGCAGAAGCGGTTGGAGGAGCGAGCAGCCATGGATG  
CCGTTTGTGCCAAAGTGGACGCTGCCAACAGGCTTGGAGACCCTCTGGAGGCTTCCCAGTGTCAAGAA  
ATATGATAGAAACGGTTGAATGTCTCCATTGAATGTAAGCGAGTGTCTGGACTGGAGCCAGCCACCGTG  
GATTGGGCCTTCGACCTGACCAAACGAATATGCAAACCATGTATGAGCAGAGCGAGTGGGGCTGGAAGG  
ACCGAGAGAAACGGGAGGAAATGACAGATGACCGAGCCTGGTACCTCATCGCGTGGGAAAACAGCTCCGT  
CCCTGTTGCCTTTTCTCACTTCCGGTTTGACGTGGAGTGTGGGGATGAAGTCTGTACTGCTATGAAGTG  
CAGTTGAAAGCAAGGTGCGGCGGAAAGGCCTGGGGAAGTTCTCATACAGATCCTGCAGCTCATGGCCA  
ACAGCACACAGATGAAGAAGGTTATGTTAACAGTATTTAAACACAATCATGGTGCCTACCAGTCTTTCAG  
AGAAGCGTTGCAATTTGAAATTGATGACTCTTCCCCCAGCATGTCCGGTTGTGTGGGGAGGATTGCTCC  
TATGAGATCTGAGCCGGAGGACCAAGTTTGGGACAGCCATCACTCCCACGCGGGTGGGCACTGTGGTG  
GCTGCTGCCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG208314 representing NM\_024771  
 Red=Cloning site Green=Tags(s)

MGRKSSKAKEKKQKRLEERAAMDVCAKVDAANRLGDPLEAFPVFKKYDRNGLNVSIECKRVSGLEPATV  
 DWAFDLTKTNMQTMYEQSEWGWKDREKREEMTDDRAWYLIAWENSSVPVAFSHFRFDVECGDEVLYCYEV  
 QLESKVRKGLGKFLIQILQLMANSTQMKKVMLTVFKHNHGAYQFFREALQFEIDDSSPMSMSGCCGEDCS  
 YEILSRRTKFGDSHHSHAGGHCGGCCH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_024771

**ORF Size:** 711 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_024771.4](#)

**RefSeq Size:** 3303 bp

**RefSeq ORF:** 714 bp

**Locus ID:** 79829

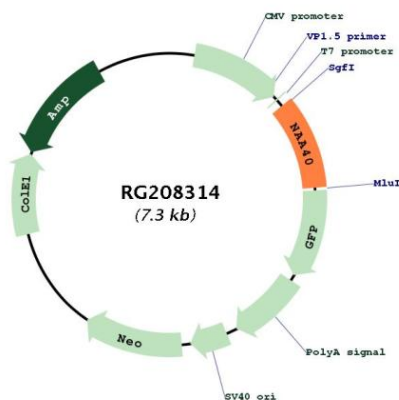
**UniProt ID:** [Q86UY6](#)

**Cytogenetics:** 11q13.1

**Domains:** Acetyltransf

**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 RG208314