

Product datasheet for **RC208314**

NAA40 (NM_024771) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NAA40 (NM_024771) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NAA40
Synonyms:	hNatD; NAT11; NatD; PATT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208314 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAGAAAGTCAAGCAAAGCCAAGGAGAAGAAGCAGAAGCGGTTGGAGGAGCGAGCAGCCATGGATG
CCGTTTGTGCCAAAGTGGACGCTGCCAACAGGCTTGGAGACCCTCTGGAGGCTTCCCAGTGTCAAGAA
ATATGATAGAAACGGTTGAATGTCTCCATTGAATGTAAGCGAGTGTCTGGACTGGAGCCAGCCACCGTG
GATTGGGCCTTCGACCTGACCAAAACGAATATGCAAACCATGTATGAGCAGAGCGAGTGGGGCTGGAAGG
ACCGAGAGAAACGGGAGGAAATGACAGATGACCGAGCCTGGTACCTCATCGCGTGGGAAAACAGCTCCGT
CCCTGTTGCCTTTTCTCACTTCCGGTTTGACGTGGAGTGTGGGGATGAAGTCTGTACTGCTATGAAGTG
CAGTTGGAAAGCAAGGTGCGGCGGAAAGGCCTGGGGAAGTTCTCATACAGATCCTGCAGCTCATGGCCA
ACAGCACACAGATGAAGAAGGTTATGTTAACAGTATTTAAACACAATCATGGTGCCTACCAGTTCCTCAG
AGAAGCGTTGCAATTTGAAATTGATGACTCTTCCCCCAGCATGTCCGGTTGTGTGGGGAGGATTGCTCC
TATGAGATCCTGAGCCGGAGGACCAAGTTTGGGACAGCCATCACTCCCACGCGGGTGGGCACTGTGGTG
GCTGCTGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208314 protein sequence
 Red=Cloning site Green=Tags(s)

MGRKSSKAKEKKQKRLEERAAMDVCAKVDAANRLGDPLEAFPVFKKYDRNGLNVSIECKRVSGLEPATV
 DWAFDLTKTNMQTMYEQSEWGWKDREKREEMTDDRAWYLI AWENSSVPVAFSHFRFDVECGDEVLYCYEV
 QLESKVRRKGLGKFLIQILQLMANSTQMKKVMLTVFKHNHGAYQFFREALQFEIDDSSPMSMSGCCGEDCS
 YEILSRRTKFGDSHSHAGGHCGGCCH

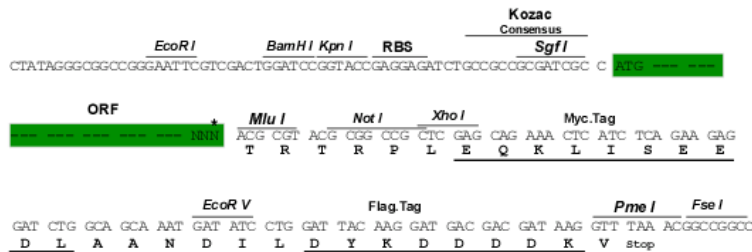
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6556_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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: 3681 bp

RefSeq ORF: 714 bp

Locus ID: 79829

UniProt ID: [Q86UY6](#)

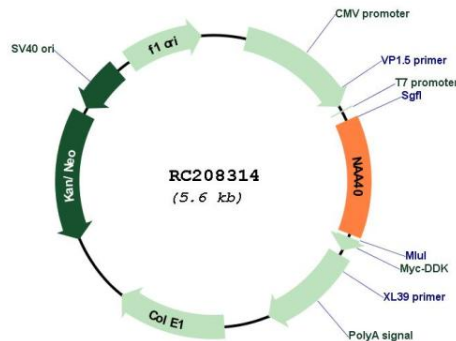
Cytogenetics: 11q13.1

Domains: Acetyltransf

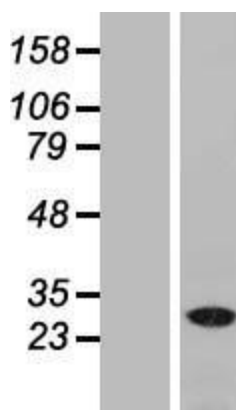
MW: 27.2 kDa

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]

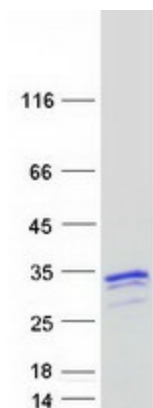
Product images:



Circular map for RC208314



Western blot validation of overexpression lysate (Cat# [LY411083]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208314 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NAA40 protein (Cat# [TP308314]). The protein was produced from HEK293T cells transfected with NAA40 cDNA clone (Cat# RC208314) using MegaTran 2.0 (Cat# [TT210002]).