

## Product datasheet for **RC203305**

### N acetyl transferase 5 (NAA20) (NM\_016100) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** N acetyl transferase 5 (NAA20) (NM\_016100) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** N acetyl transferase 5  
**Synonyms:** dj1002M8.1; NAT3; NAT3P; NAT5; NAT5P  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC203305 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCACGCTACGGCCTTTACCTGCGACGACCTGTTCCGCTTCAACAACATTAACCTGGATCCACTTA  
CAGAACTTATGGGATTCCTTTACCTACAATACCTCGCCACTGGCCAGAGTATTTTCATTGTTGCAGA  
GGCACCTGGTGGAGAATTAATGGTTATATTATGGGTAAGCAGAAAGGCTCAGTAGCTAGGAAGAATGG  
CACGGGCAGTACAGCTCTGTCTGTTGCCCGAATTCGACGCCTTGGTTGGCTGCTAACTTATGG  
AGTTACTAGAGGAGATTTAGAAAGAAAGGGTGGATTTTTGTGGATCTCTTTGTAAGAGTATCTAACCA  
AGTTGCAGTTAATGTACAAGCAGTTGGCTACAGTGTATATAGGACGGTCATAGAGTACTATTCGGCC  
AGCAACGGGGAGCCTGATGAGGACGCTTATGATATGAGGAAAGCACTTCCAGGGACTGAGAAGAAAT  
CCATCATACCATTACCTCATCTGTGAGGCCTGAAGACATTGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC203305 protein sequence  
Red=Cloning site Green=Tags(s)

MTTLRAFTCDLFRFNNINLDPLTETYGIPFYLAHWPEYFIVAEAPGGELMGYIMGKAEGSVAREEW  
HGHVTALVSAPEFRRLGLAAKLMELLEISERKGGFFVDLFRVSNQVAVNMYKQLGYSVYRTVIEYYSA  
SNGEPDEDAYDMRKALSRDTEKKSIIPLPHPVRPEIDIE

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

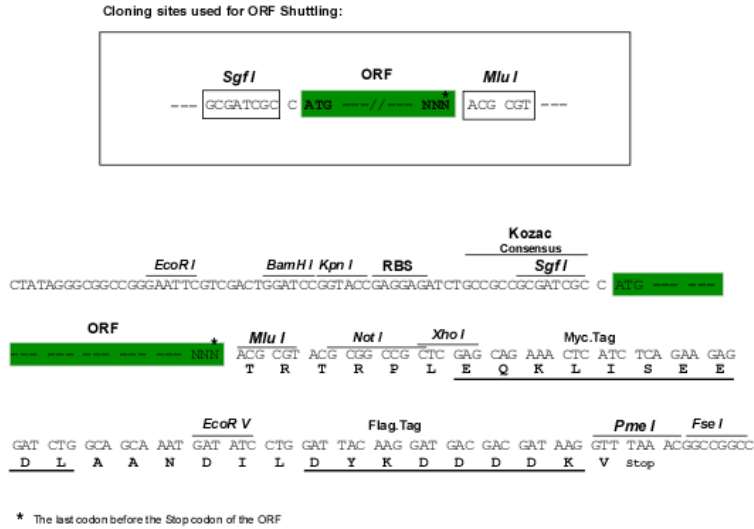
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6050\\_a04.zip](https://cdn.origene.com/chromatograms/mk6050_a04.zip)



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016100

**ORF Size:** 534 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

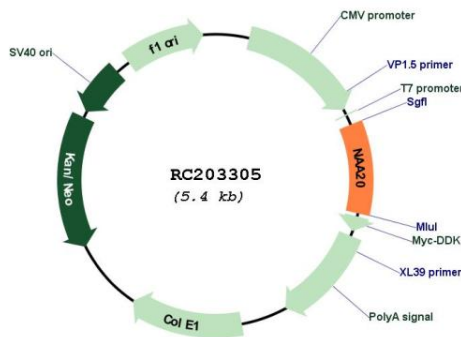
**RefSeq:** [NM\\_016100.5](#)

**RefSeq Size:** 1102 bp

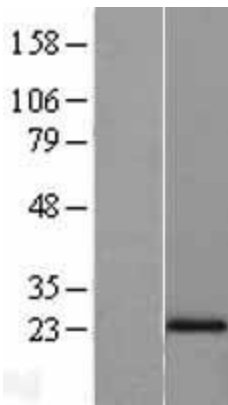
**RefSeq ORF:** 537 bp

**Locus ID:** 51126  
**UniProt ID:** [A6NHA3](#)  
**Cytogenetics:** 20p11.23  
**Domains:** Acetyltransf  
**Protein Pathways:** Glycerophospholipid metabolism, Limonene and pinene degradation, Phenylalanine metabolism, Tyrosine metabolism  
**MW:** 20.4 kDa  
**Gene Summary:** NAT5 is a component of N-acetyltransferase complex B (NatB). Human NatB performs cotranslational N(alpha)-terminal acetylation of methionine residues when they are followed by asparagine (Starheim et al., 2008 [PubMed 18570629]).[supplied by OMIM, Apr 2009]

**Product images:**



Circular map for RC203305



Western blot validation of overexpression lysate (Cat# [LY402506]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203305 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).