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# Product datasheet for RG222201

## N acetyl transferase 5 (NAA20) (NM_181527) Human Tagged ORF Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | N acetyl transferase 5 (NAA20) (NM_181527) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | NAA20 |
| **Synonyms:** | dJ1002M8.1; NAT3; NAT3P; NAT5; NAT5P |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

>RG222201 representing NM_181527
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGTCTCAGTCATGTAACTTGGATCCACTTACAGAAACTTATGGGATTCCTTTCTACCTACAATACC
TCGCCCACTGGCCAGAGTATTTCATTGTTGCAGAGGCACCTGGTGGAGAATTAATGGGTTATATTATGGG
TAAAGCAGAAGGCTCAGTAGCTAGGGAAGAATGGCACGGGCACGTCACAGCTCTGTCTGTTGCCCCAGAA
TTTCGACGCCTTGGTTTGGCTGCTAAACTTATGGAGTTACTAGAGGAGATTTCAGAAAGAAAGGGTGGAT
TTTTTGTGGATCTCTTTGTAAGAGTATCTAACCAAGTTGCAGTTAACATGTACAAGCAGTTGGGCTACAG
TGTATATAGGACGGTCATAGAGTACTATTCGGCCAGCAACGGGGAGCCTGATGAGGACGCTTATGATATG
AGGAAAGCACTTTCCAGGGATACTGAGAAGAAATCCATCATACCATTACCTCATCCTGTGAGGCCTGAAG
ACATTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG222201 representing NM_181527
Red=Cloning site Green=Tags(s)

MLSQSCNLDPLTETYGIPFYLQYLAHWPEYFIVAEAPGGELMGYIMGKAEGSVAREEWHGHVTALSVAPE
FRRLGLAAKLMELLEEISERKGGFFVDLFVRVSNQVAVNMYKQLGYSVYRTVIEYYSASNGEPDEDAYDM
RKALSRDTEKKSIIPLPHPVRPEDIE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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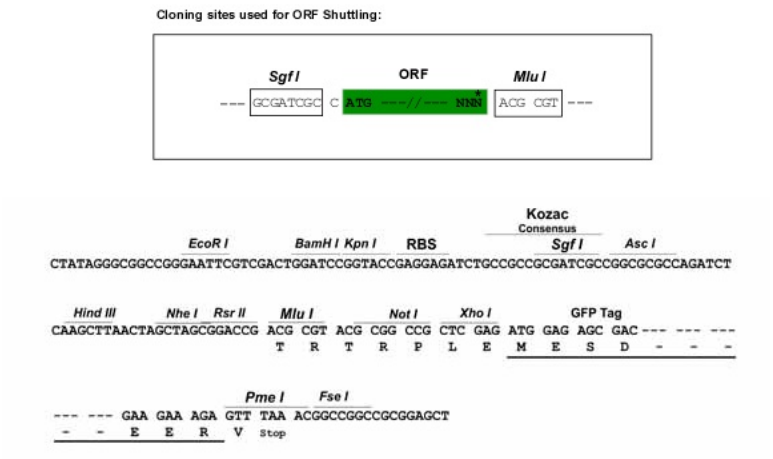
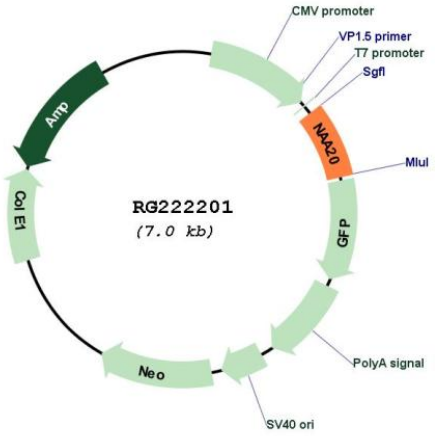
**Cloning Scheme:**




**Plasmid Map:**

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|---|---|
| **ACCN:** | NM_181527 |
| **ORF Size:** | 498 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. |

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| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_181527.3, NP_852668.1 |
| **RefSeq Size:** | 1189 bp |
| **RefSeq ORF:** | 501 bp |
| **Locus ID:** | 51126 |
| **Cytogenetics:** | 20p11.23 |
| **Protein Pathways:** | Glycerophospholipid metabolism, Limonene and pinene degradation, Phenylalanine metabolism, Tyrosine metabolism |
| **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] |