

Product datasheet for **RG203388**

NAT13 (NAA50) (NM_025146) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NAT13 (NAA50) (NM_025146) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NAT13
Synonyms: hNaa50p; MAK3; NAT5; NAT5P; NAT13; NAT13P; SAN
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203388 representing NM_025146
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGGTAGCCGGATCGAGCTGGGAGATGTGACACCACACAATATTAACAGTTGAAAAGATTGAATC
AGGTCATCTTTCCAGTCAGCTACAATGACAAGTTCTACAAGGATGTGCTGGAGTTGGCGAGCTAGCAA
ACTTGCCTATTTCAATGATATTGCTGTAGGTGCAGTATGCTGTAGGGTGGATCATTACAGAATCAGAAG
AGACTTTACATCATGACACTAGGATGTCTGGCACCTTACCGAAGGCTAGGAATAGGAACTAAAATGTTAA
ATCATGTCTTAAACATCTGTGAAAAGATGGTACTTTTGACAACATTTATCTGCATGTCCAGATCAGCAA
TGAGTCGCAATTGACTTCTACAGGAAGTTTGGCTTTGAGATTATTGAGACAAAGAAGAACTACTATAAG
AGGATAGAGCCCCGAGATGCTCATGTGCTGCAGAAAAACCTCAAAGTTCTTCTGGTCAGAAATGCAGATG
TGAAAAGACAGACAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

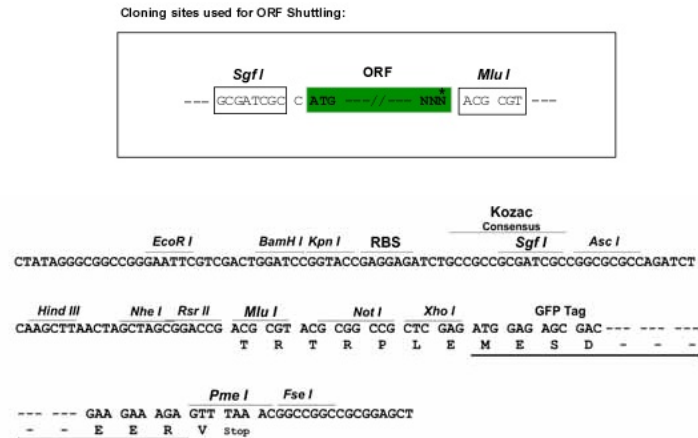
Protein Sequence: >RG203388 representing NM_025146
Red=Cloning site Green=Tags(s)
MKGSRIELGDVTPHNIKQLKRLNQVIFPVSYNDKFYKDVLEVGEAKLAYFNDAIVGAVCCRVDHDSQNQK
RLYIMTLGCLAPYRRLGIGTKMLNHLNICEKDGTFDNIYLHVQISNESAIIDFYRKFGEIIEETKKNYYK
RIEPADAHVLQKNLKVPSGQNADVQKTDN

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_025146

ORF Size: 507 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_025146.4](#)

RefSeq Size: 3576 bp

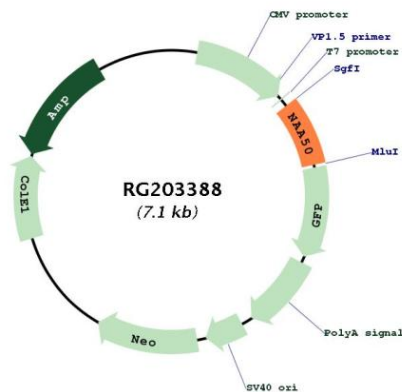
RefSeq ORF: 510 bp

Locus ID: 80218

UniProt ID: [Q9GZZ1](#)

Cytogenetics:	3q13.31
Domains:	Acetyltransf
Gene Summary:	<p>N-alpha-acetyltransferase that acetylates the N-terminus of proteins that retain their initiating methionine (PubMed:19744929, PubMed:22311970, PubMed:21900231, PubMed:27484799). Has a broad substrate specificity: able to acetylate the initiator methionine of most peptides, except for those with a proline in second position (PubMed:27484799). Also displays N-epsilon-acetyltransferase activity by mediating acetylation of the side chain of specific lysines on proteins (PubMed:19744929). Autoacetylates in vivo (PubMed:19744929). The relevance of N-epsilon-acetyltransferase activity is however unclear: able to acetylate H4 in vitro, but this result has not been confirmed in vivo (PubMed:19744929). Component of a N-alpha-acetyltransferase complex containing NAA10 and NAA15, but NAA50 does not influence the acetyltransferase activity of NAA10: this multiprotein complex probably constitutes the major contributor for N-terminal acetylation at the ribosome exit tunnel, with NAA10 acetylating all amino termini that are devoid of methionine and NAA50 acetylating other peptides (PubMed:16507339, PubMed:27484799). Required for sister chromatid cohesion during mitosis by promoting binding of CDCA5/sororin to cohesin: may act by counteracting the function of NAA10 (PubMed:17502424, PubMed:27422821).[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RG203388