

## Product datasheet for **SC107918**

### **MNAT1 (NM\_002431) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MNAT1 (NM_002431) Human Untagged Clone
Tag:	Tag Free
Symbol:	MNAT1
Synonyms:	CAP35; MAT1; RNF66; TFB3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002431, the custom clone sequence may differ by one or more nucleotides

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ATGGACGATCAGGGTTGCCCTCGGTGTAAGACCACCAAATATCGGAACCCCTCCTGAAGCTGATGGTGA
ATGTGTGCGGACACACTCTCTGTGAAAGTTGTGTAGATTTACTGTTTGTGAGAGGAGCTGAAAAGTCCC
TGAGTGTGGTACTCCACTCAGAAAGAGCAACTTCAGGGTACAACCTTTTGAAGATCCCACTGTTGACAAG
GAGGTTGAGATCAGGAAAAAGTGCTAAAGATATAAATAAAAGGGAAGAAGATTTTCTAGTCTAAGAG
AATACAATGATTTCTTGAAGAAGTGAAGAAATTGTTTTCAACTTGACCAACAATGTGGATTTGGACAA
CACAAAAAGAAAATGGAGATATACAAAAGGAAAACAAAGATGTTATTCAGAAAAATAATTAAGCTG
ACTCGAGAACAGGAAGAACTGGAAGAAGCTTTAGAAGTGAACGACAGGAAAATGAACAAAGAAGATTAT
TTATACAAAAAGAAGAACAACCTGCAGCAGATTCTAAAAAGGAAGAATAAGCAGGCTTTTTAGATGAGCT
GGAGAGTTCTGATCTCCCTGTTGCTCTGCTTTTGGCTCAGCATAAAGATAGATCTACCCAATTAGAAATG
CAACTTGAGAAACCCAAACCTGTAAAACCAAGTACGTTTTCCACAGGCATCAAAATGGGTCAACATATTT
CACTGGCACCTATTCACAAGCTTGAAGAAGCTCTGTATGAATACCAGCCACTGCAGATAGAGACATATGG
ACCACATGTTCTGAGCTTGAGATGCTAGGAAGACTTGGGATTTAAACCATGTCAGAGCTGCCTCACCA
CAGGACCTTGCTGGAGGCTATACTTCTTCTTGTGCTGTCACAGAGCACTACAGGATGCATTCAGTGGGC
TTTTCTGGCAGCCAGTTAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_002431 unedited TATTTTGTAAACGATTTACTATAGGNNCGGCCGCGCAATTCGGCACGAGGGCCTGTTG GTAGGAACCTGCTTGGTCGCGTCTGAGGGGGCTTGTAGGTGGCTGGCTGAAACAGGCG CCTGCGAGAGTCTGTAGGAGGGAAACCGCCATGGACGATCAGGGTTGCCCTCGGTGTAAG ACCACAAATATCGGAACCCCTCCTTGAAGCTGATGGTGAATGTGTGCGGACACACTCTC TGTGAAAGTTGTGTAGATTTACTGTTTGTGAGAGGAGCTGGAAACTGCCCTGAGTGTGGT ACTCCACTCAGAAAGAGCAACTTCAGGGTACAACCTTTTGAAGATCCCCTGTTGACAAG GAGGTTGAGATCAGGAAAAAAGTCTAAAGATATACAATAAAAGGAAGAAGATTTTCCT AGTCTAAGAGAATACAATGATTTCTTGGAGAAGTGAAGAATAATGTTTTCAACTTGACC AACAAATGTGGATTTGGACAACACCAAAAAGAAAATGGAGATATACCAAAAGGAAAAACAA GATGTTATTCAGAAAAATAAATTAAGCTGACTCGAGAACAGGAAGAACTGGAAGAAGCT TTAGAAGTGAACGACAGGAAAAATGAACAAGAAGATTATTTATACAAAAAGAAGAACAA CTGCAGCAGATTCTAAAAAGGAAGAATAAGCCAGGCTTTTTTAGATGAGCTGGAGAGTTC TGATCTCCCTGTTGCTCTGCTCTGGCTCAGCATAAAGATAGATCTACCAATTAGAAATG CACCTGAGAAACCAACCTGTAAAACAGTGACGTTTTTCCCAGGCATCCAAATGGGTCA ACATATTTCACTGGCACCTATTCACAGCCTTGAAGAAGCTCTGTATGAATACCAGCCACT CAGAAAGAGACTTATGGACCACAGTTTCTGAGCTTGAGATGCTAGAAGACTGGGTATTA ACCTGTGAGAATTGCCACCCAGGACCTGT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002431
<b>Insert Size:</b>	1590 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_002431.2</a> , <a href="#">NP_002422.1</a>
<b>RefSeq Size:</b>	1388 bp
<b>RefSeq ORF:</b>	930 bp
<b>Locus ID:</b>	4331
<b>UniProt ID:</b>	<a href="#">P51948</a>
<b>Cytogenetics:</b>	14q23.1
<b>Domains:</b>	RING

**Protein Families:** Druggable Genome, Stem cell - Pluripotency, Transcription Factors

**Protein Pathways:** Nucleotide excision repair

**Gene Summary:** The protein encoded by this gene, along with cyclin H and CDK7, forms the CDK-activating kinase (CAK) enzymatic complex. This complex activates several cyclin-associated kinases and can also associate with TFIIH to activate transcription by RNA polymerase II. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).