

Product datasheet for **SC328434**

MNAT1 (NM_001177963) Human Untagged Clone

Product data:

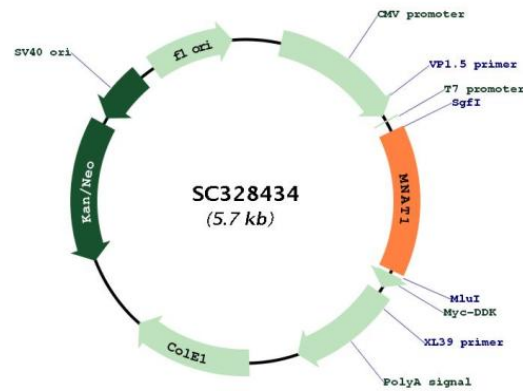
Product Type:	Expression Plasmids
Product Name:	MNAT1 (NM_001177963) Human Untagged Clone
Tag:	Tag Free
Symbol:	MNAT1
Synonyms:	CAP35; MAT1; RNF66; TFB3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328434 representing NM_001177963. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGACGATCAGGGTTGCCCTCGGTGTAAGACCACCAAATATCGGAACCCCTCCTGAAGCTGATGGTG
AATGTGTGCGGACACACTCTCTGTGAAAGTTGTGTAGATTTACTGTTTGTGAGAGGAGCTGGAACTGC
CCTGAGTGTGGTACTCCACTCAGAAAGAGCAACTTCAGGGTACAACCTCTTGAAGATCCCCTGTTGAC
AAGGAGTTGAGATCAGGAAAAAGTGCTAAAGATATAACAATAAAAGGGAAGAAGATTTTCCTAGTCTA
AGAGAATAACAATGATTTCTTGAAGAAGTGAAGAAATTTTCAACTTGACCAACAATGTGGATTTG
GACAACACCAAAAAGAAAATGGAGATATACAAAAGGAAAACAAAGATGTTATTCAGAAAAATAAATTA
AAGCTGACTCGAGAACAGGAAGAACTGGAAGAAGCTTTAGAAGTGAACGACAGGAAAATGAACAAGA
AGATTATTTATACAAAAGAAACAACCTGCAGCAGATTTCAAAAAGGAAGAATAAGCAGCTTTTTTA
GATGAGCTGGGTCAACATATTTCACTGGCACCTATTCACAAGCTTGAAGAAGCTCTGTATGAATACCAG
CCACTGCAGATAGAGACATATGGACCACATGTTCTGAGCTTGAGATGCTAGGAAGACTTGGGATTTTA
AACCATGTCAGAGCTGCCTCACACAGGACCTTGCTGGAGGCTATACTTCTTCTTCTGCTGTGCACAGA
GCACTACAGGATGCATTCAGTGGGCTTTTCTGGCAGCCAGTTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001177963

Insert Size: 804 bp

OTI Disclaimer: 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001177963.1](#)

RefSeq Size: 1271 bp

RefSeq ORF:	804 bp
Locus ID:	4331
UniProt ID:	P51948
Cytogenetics:	14q23.1
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
Protein Pathways:	Nucleotide excision repair
MW:	31.1 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an exon in the coding region compared to variant 1. The resulting protein (isoform 2) is shorter but has the same N- and C-termini compared to isoform 1.</p>