

Product datasheet for **MC208967**

Mnat1 (NM_008612) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mnat1 (NM_008612) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mnat1
Synonyms: E130115E11Rik; MAT1; P36
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC208967 representing NM_008612
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGACGACCAGGGCTGCCCCAGGTGTAAGACCACCAAGTACCGAACCCCTTCTTTGAAGCTGATGGTGA
ACGTGTGCGGACACACTCTGTGTGAGAGTTGTGTGGACTTACTGTTTGAAGAGGAGCTGAAAACCTGTC
TGAGTGTGGGACTCCACTGAGAAAGAGCAACTTCAGGGTACAACCTTTTGAAGATCCCACTGTTGATAAG
GAGGTTGAAATTCGAAAAAAGTACTAAAGATATACAATAAAAGGGAAGAAGATTTTCTAGTTTAAAGAG
AGTATAATGATTTTCTGGAAGAAGTGGAGAAAATCGTTTTCAATTTGACCAACAATGTTGGATTTGGAGAA
CACTAAAAAGAAAATGGAATATATCAAAAAGAAAACAAGATGTCATTGAGAAAAACAATTAAGCTG
ACGCGGGAGCAGGAGGAGTTGGAGGAAGCATTGGAGGTAGAACGCAAGAACATGAGCAGCGACGGCTGT
TCATACAAAAGGAAGAAGAGCTGCAGCAGGCTCTGAAAAGGAAGAACAAGCAGGCCTTTTAGATGAGCT
GGAGAGCTCCGACCTCCCTGTTGCTCTGCTCCTGGCGCAGCATAAAGACAGATCGACCCAGCTGGAATG
CAGCTCGAGAAGCCAGATCCATGAAGCCAGTGACGTTTTCCACAGGAATTAATGGGTCAACAGATTT
CATTAGCACCAATCCAAAAGCTGGAAGAAGCTCTTTATGAGTACCAGCCCCTGCAGATAGAGACCTGTGG
CCCACAAGTTTCTGAGCAAGAGCTCTTAGGACGGCTTGGGTATTTAAACACGTCGCGGCTGCATCTCCA
CAGGATCTTGCTGGCGGTATACTTCTTCTTCTGCTTGTACAGAGCGCTACAGGATGCGTTCAGTGGGC
TCTTCTGGCAGCCAGAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_008612
Insert Size: 930 bp



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| 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). |
| 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: | <ol style="list-style-type: none">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_008612.2 , NP_032638.2 |
| RefSeq Size: | 2505 bp |
| RefSeq ORF: | 930 bp |
| Locus ID: | 17420 |
| UniProt ID: | P51949 |
| Cytogenetics: | 12 C3 |
| Gene Summary: | Stabilizes the cyclin H-CDK7 complex to form a functional CDK-activating kinase (CAK) enzymatic complex. CAK activates the cyclin-associated kinases CDK1, CDK2, CDK4 and CDK6 by threonine phosphorylation. CAK complexed to the core-TFIIF basal transcription factor activates RNA polymerase II by serine phosphorylation of the repetitive C-terminal domain (CTD) of its large subunit (POLR2A), allowing its escape from the promoter and elongation of the transcripts. Involved in cell cycle control and in RNA transcription by RNA polymerase II. [UniProtKB/Swiss-Prot Function] |