

## Product datasheet for **SC113026**

### **NMT1 (NM\_021079) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NMT1 (NM_021079) Human Untagged Clone
Tag:	Tag Free
Symbol:	NMT1
Synonyms:	NMT
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC113026 sequence for NM\_021079 edited (data generated by NextGen Sequencing)

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ATGGCGGACGAGAGTGAGACAGCAGTGAAGCCGCCGACCTCCGCTGCCGACAGATGATG
GAAGGGAACGGGAACGGCCATGAGCACTGCAGCGATTGCGAGAATGAGGAGGACAACAGC
TACAACCGGGGTGGTTTGTAGTCCAGCCAATGACACTGGAGCCAAAAAGAAGAAAAAGAA
CAAAAAAGAAGAAAGAAAAAGGCAGTGAGACAGATTGAGCCAGGATCAGCCTGTGAAG
ATGAACTCTTTGCCAGCAGAGAGGATCCAGGAAATACAGAAGGCCATTGAGCTGTTCTCA
GTGGGTACAGGGACCTGCCAAAACCATGGAGGAGGCTAGCAAGCGAAGCTACCAGTTCTGG
GATACGCAGCCCGTCCCCAAGCTGGGCGAAGTGGTGAACACCCATGGCCCGTGGAGCCT
GACAAGGACAATATCCGCCAGGAGCCCTACACCCTGCCCCAGGGCTTACCTGGGATGCT
TTGGACCTGGGCGATCGTGGTGTGCTAAAAGAACTGTACACCCTCTGAATGAGAACTAT
GTGGAAGATGATGACAACATGTTCCGATTTGATTATCCCGGAGTTTCTTTTGTGGGCT
CTCCGGCCACCCGGCTGGCTCCCCAGTGGCACTGTGGGGTTCGAGTGGTCTCAAGTCGG
AAATTGGTTGGGTTTCATTAGCGCCATCCCAGCAAACATCCATATCTATGACACAGAGAAG
AAGATGGTAGAGATCAACTTCTGTGTGTCCACAAGAAGCTGCGTTCCAAGAGGGTTGCT
CCAGTTCTGATCCGAGAGATCACCAGGGGGTTACCTGGAGGGCATCTTCCAAGCAGTT
TACACTGCCGGGGTGGTACTACCAAAGCCGTTGGCACCTGCAGGTATTGGCATCGGTCC
CTAAACCCACGGAAGCTGATTGAAGTGAAGTTCTCCACCTGAGCAGAAATATGACCATG
CAGCGCACCATGAAGCTCTACCGACTGCCAGAGACTCCCAAGACAGCTGGGCTGCGACCA
ATGGAACAAAGGACATTCAGTAGTGCACCAGCTCCTCACCAGTACTTGAAGCAATTT
CACCTTACGCCGTCATGAGCCAGGAGGAGGTGGAGCACTGGTTCTACCCCCAGGAGAAT
ATCATCGACACTTTCGTGGTGGAGAACGCAAACGAGAGGTGACAGATTTCTGAGCTTT
TATACGCTGCCCTCCACCATCATGAACCATCAACCCACAAGAGTCTCAAAGCTGCTTAT
TCTTTCTACAACGTTTACACCCAGACCCCTTCTAGACCTCATGAGCGACGCCCTTGTC
CTCGCCAAAATGAAAGGGTTTGTGTGTTCAATGCACTGGATCTCATGGAGAACAAAACC
TTCCTGGAGAAGCTCAAGTTTGGCATAGGGGACGGCAACCTGCAGTATTACCTTTACAAT
TGGAAATGCCCCAGCATGGGGGCAGAGAAGGTTGGACTGGTGTACAATAA
    
```

Clone variation with respect to NM\_021079.3  
487 t=>c

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_021079 unedited
NAAAGGTTCAAATTTAGTATACGACTCATTATAGGCGGCCGCGCCTCGTGCCGAATTCGG
CACGAGGGAGCCCTGCTCTCGCACTCAAGAGGGCGGACGAGAGTGAGACAGCAGTGAAGCC
GCCGGCACCTCCGCTGCCGACAGATGATGGAAGGGAACGGGAACGGCCATGAGCACTGCAG
CGATTGCGAGAATGAGGAGGACAACAGCTACAACCGGGTGGTTTGTAGTCCAGCCAATGA
CACTGGAGCCAAAAAGAAGAAAAAGAAACAAAAAAGAAGAAAGAAAAAGGCAGTGAGAG
AGATTCAGCCCAGGATCAGCCTGTGAAGATGAACTCTTTGCCAGCAGAGAGGATCCAGGA
AATACAGAAGGCCATTGAGCTGTTCTCAGTGGGTGAGGGACCTGCCAAAACCATGGAGGA
GGCTAGCAAGCGAAGCTACCAGTTCTGGGATACGCAGCCCGTCCCCAAGCTGGGCGAAGT
GGTGAACACCCATGGCCCGTGGAGCCTGACAAGGACAAATCCGCCAGGAGCCCTACAC
CCTGCCCCAGGGCTTACCTGNGATGCTTTGGACCTGNGCGATCGTGGTGTGCTAAAAGA
ACTGTACACCCTCCTGAATGAGAACTATGTGGAAGATGATGACAACATGTTCCGATTTGA
TTATCCCGGAGTTTCTTTTGTGGGCTCTCCGGCCACCCGGCTGGCTCCCCAGGGACT
GTGTGGGGTTCGAGTGGTCTCAAGTCGAAATTGNTGGGNTCATTAGCGCCATCCCAGC
AAACATCCATATCTATGACACAGAGAAGAAGAGGTNGAGATCAACTTCTGTGTGTCACA
AGAGCTGCNGTCCAGAAGGGTGCTCCAGTTCTGATCCGAGAGATCACCAGCGGGTCACT
GGAAGGCATCT
    
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_021079 unedited GGCACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTAAATATATATATACTTTTAT TATTCACCCGTTAACTCCATTATATGCCAATCACGAGCTAGTTTTTCAGCAGTTACATTCC CTTGATCACGGCTGCATGAGGATGTAATTAAGTGGAAAACACGGAGACCAGAGACACGAC CGGAGGTGACGTACGCAGCCCACGCCATCGCAATACAATTGTCAAGTTCGCTGGCGGTT TGGTAAAGCCGGTTCAGTTCGTCCCTTTGCCAGGGATTCTCACGTGTGTGAAAATTGG ACCAACAGTGGTGGGTTCCATTTCCCTGGTTCGAATTTTCAGTGGCTTTATCCAGAATCG CACTGGTGACTGGTTATTGTAGCACCAAGTCCAACCTTCTCTGCCCCATGCTGGGGCATT TCCAATTGTAAAGGTAATACTGCAGTTGCCGTCCCTATGCCAAACTTGAGCTTCTCCA GGAAGGTTTTGTCTCCATGAGATCCAGTGCATTGAACACATCAAACCCTTTCATTTTGG CGAGGACAAGGGCGTGCCTCATGAAGTCTATAAGAGGGGTCTGGGTGTGAACGTTGTANA AAGAATAAGCAGCTTTGAGACTTTGTGGGTTGGATGGTTCATGATGGTGGAGGGCAGCG TATAAAAGCTCAGGATATCTGTACCTCTCCGTTTGCCTTCTCCACCACGAAAGTGTGCA TGATATTCTCCTGAGGTAGAACCAGAGCTCCACCTCCTCTGGCTCATGACGGNCGTAA AGTGAAATTGCCTCAAGTACCTGGTGGAGAGCTGGTGCCTACTGGAATGTNCTTTGNTT NCATTGGTGCAGNCCANCTGTCTTGGGAGTCTCTGGGCAGTCGTAACCTTATGGAGCG CTGCATGGNCATATTCTGCTCAGNAGGGGAGAACTCACTTCATCAGCTCCGGGGGTTAGG GACGATGCCATACCTGCAGTGCCNACGGNCTTN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_021079
<b>Insert Size:</b>	1870 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_021079.3</a> , <a href="#">NP_066565.1</a>
<b>RefSeq Size:</b>	4903 bp
<b>RefSeq ORF:</b>	1491 bp
<b>Locus ID:</b>	4836
<b>UniProt ID:</b>	<a href="#">P30419</a>
<b>Cytogenetics:</b>	17q21.31
<b>Domains:</b>	NMT

**Protein Families:** Druggable Genome

**Gene Summary:** Myristate, a rare 14-carbon saturated fatty acid, is cotranslationally attached by an amide linkage to the N-terminal glycine residue of cellular and viral proteins with diverse functions. N-myristoyltransferase (NMT; EC 2.3.1.97) catalyzes the transfer of myristate from CoA to proteins. N-myristoylation appears to be irreversible and is required for full expression of the biologic activities of several N-myristoylated proteins, including the alpha subunit of the signal-transducing guanine nucleotide-binding protein (G protein) GO (GNAO1; MIM 139311) (Duronio et al., 1992 [PubMed 1570339]).[supplied by OMIM, Nov 2008]