

## Product datasheet for **SC321271**

### NMNAT2 (NM\_170706) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NMNAT2 (NM_170706) Human Untagged Clone
Tag:	Tag Free
Symbol:	NMNAT2
Synonyms:	C1orf15; PNAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_170706.2  
 TTCAAATTCTCCCAAGCTGGAGGTAGTGGAGCAAACAAGATCAGCAACAATGAGGGAGCA  
 GCTGCACCACTTTGTGTTACTCTCTGATGGCCAGCACAGGGCTGCAAGTAGTGGCTGCAA  
 AAACCAGACAAATAGATGGAAATCCAGGAACTAGAGGAAATTCAGGCCTGCCAGGGGCTC  
 TGGGAAGTGTGTTACTCTCTCAGAAAAGCCAGGGATTATCTGCACAAAACCTGGAAGG  
 TTTATTGTGATTGGCGGGATTGTCTCCCTGTCCACGACTCCTATGAAAAACAGGGCCTC  
 GTGTCAAGCCGGCACCCGTCTCATCATGTGTGTCAGCTGGCCGTCCAGAATTCTGATTGGATC  
 AGGGTGGACCCCTTGGGAGTGCTACCAGGACACCTGGCAGACGACCTGCAGCGTGTGGAA  
 CACCACCGGGACCTCATGAAGAGGGTACTGGCTGCATCCTCTCCAATGTCAACACACCT  
 TCCATGACACCTGTGATCGGACAGCCACAAAACGAGACCCCCAGCCATTTACCAGAAC  
 AGCAACGTGGCCACCAAGCCCACTGCAGCCAAGATCTTGGGGAAGGTGGGAGAAAGCCTC  
 AGCCGGATCTGCTGTGTCGCCCGCCGGTGGAGCGTTTCACTTTGTAGATGAGAATGCC  
 AATCTGGGCACGGTATGCGGTATGAAGAGATTGAGCTACGGATCCTGCTGCTGTGGT  
 AGTGACCTGCTGGAGTCTTCTGCATCCCAGGGCTCTGGAACGAGGCAGATATGGAGGTG  
 ATTGTTGGTGACTTTGGGATTGTGGTGGTCCCCGGGATGCAGCCGACACAGACCGAATC  
 ATGAATCACTCCTCAATACTCCGAAATACAAAACAACATCATGGTGGTGAAGGATGAC  
 ATCAACCATCCCATGTCTGTTGTGAGCTCAACCAAGAGCAGGCTGGCCCTGCAGCATGGG  
 GACGGCCATGTTGTGGATTACCTGTCCCAGCCGGTTCATCGACTACATCCTCAAAAGCCAG  
 CTGTACATCAATGCCTCCGGCTAGCAGCCCTCGTCTCCGGCAACACAATGGCCCTCC  
 ATCTTTGTGAGCCCTGTTTCTCTCCTGCCTCTCTGTTTCTCCATCTCCTCGTCTTGAC  
 TGTTTTCCCTACTGTGACTTAACCCCCATAGTGTGGGGACCTGCAGAGAACCATGG  
 CATTCCCTATCCACAGTCATCTTTGGACAGACTTCTCTAGTCTCCGGTTGGGGTG  
 GGTGAGGAATGGGTGGGAGTGGGGGAAGTGCAGTCTTGGAGATGACTGGTGTCCG  
 TCTCCAGCATGCTCTAGAGAGCGGCTCTGGTGCCATCCTCCAGCAGCTCTGGGGA  
 GCGGCTCTGGTGCCATCCTCCAGCATGCTCTAGAGAGGCGGCTCTGGTGCCCTCCT  
 CCCAGCATGCTCTGGGAGGCGGCTCTGGCTCTTGCTTCCCAGCATGCCCTTTACTACA  
 AAGGGCTATTTTTCTTTCTTTCTTTGTTTATTTATTTTTCTTTGTTCACTCCCTGTAG  
 AACTTGGATGAAATCAGTGTCCATGGTTCTTTATGTTTGTAGTCTTGATGTGCTCCTGTG  
 GTATTACTTCCCCTCTGATAGGACATTGTAGCCAGCCTCAGCACTCAGTGAGTTCATCAG  
 GGCCACACCCAGTAGAGAAGCCAAGCAACCTCCACTTCTCAGCACCACACACACGCAC  
 ACACACACACACACATGCGTGTGCACCCGCGCACGCACATACACACACATATAG  
 CAGTAGCAGCAGCAGCAGCAGCAGCAACCTTTGATCAGGAGTGAGATTTTCGGGTTT  
 TGAACCTGGGACACGAGTCTGTGAATAGTCGGTTTTCTCAGAATAATTTGAATCTGTTT  
 TCTTAGTTTCAAATGACCATTTCCCTGATGCTCTGAGCTTATGATCACACAGAGCCAGTC  
 CATCTCATTTCTGGTGGCATCTGTTCATTTACCTTTGTGGACTGTAGCTGATGGCACA  
 GTGCGGTTCCCTACCAGCCAGGGGTTTCCAAGGGACCTTTGGAGGCCATGCTTAGACAC  
 ATTCTGTACCTGAGAACAACCACATAGGCAGGACCAGATCCACATCGTGCAGTCGTGTC  
 ATAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_170706

**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.

<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>	<u><a href="#">NM_170706.2</a></u> , <u><a href="#">NP_733820.1</a></u>
<b>RefSeq Size:</b>	5465 bp
<b>RefSeq ORF:</b>	909 bp
<b>Locus ID:</b>	23057
<b>UniProt ID:</b>	<u><a href="#">Q9BZQ4</a></u>
<b>Cytogenetics:</b>	1q25.3
<b>Protein Pathways:</b>	Metabolic pathways, Nicotinate and nicotinamide metabolism
<b>Gene Summary:</b>	<p>This gene product belongs to the nicotinamide mononucleotide adenylyltransferase (NMNAT) enzyme family, members of which catalyze an essential step in NAD (NADP) biosynthetic pathway. Unlike the other human family member, which is localized to the nucleus, and is ubiquitously expressed; this enzyme is cytoplasmic, and is predominantly expressed in the brain. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>