

## Product datasheet for **SC335019**

### NMNAT1 (NM\_001297778) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NMNAT1 (NM_001297778) Human Untagged Clone
Tag:	Tag Free
Symbol:	NMNAT1
Synonyms:	LCA9; NMNAT; PNAT1; SHILCA
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_001297778, the custom clone sequence may differ by one or more nucleotides

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ATGAAAAATCCGAGAAGACTGAAGTGGTTCTCCTTGCTTGTGGTTCATTCAATCCCATCACCAACATGC
ACCTCAGGTTGTTTGAGCTGGCCAAGGACTACATGAATGGAACAGGAAGGTACACAGTTGTCAAAGGCAT
CATCTCTCCTGTTGGTATGCCTACAAGAAGAAAGGACTATTCTGCCTATCACCGGTCATCATGGCA
GAACTTGTACCAAGAATTCTAAATGGGTGGAAGTTGATACATGGGAAAGTCTTCAGAAGGAGTGGAAAG
AGACTCTGAAGGTGCTAAGACACCATCAAGAGAAATTGGAGGCTAGTGACTGTGATCACCAGCAGAACTC
ACCTACTCTAGAAAGGCCTGGAAGGAAGGAAAGTGGACTGAAACACAAGATTCTAGTCAAAGAAATCC
CTAGAGCCAAAAACAAAAGCTGTGCCAAAGGTCAAGCTGCTGTGTGGGGCAGATTTATTGGAGTCCTTTG
CTGTTCCCAATTTGTGGAAGAGTGAAGACATCACCCAAATCGTGGCCAATATGGGCTCATATGTGTAC
TCGGGCTGGAATGATGCTCAGAAGTTTATCTATGAATCGGATGTGCTGTGGAACACCGGAGCAACATT
CACGTGGTGAATGAATGGATCGCTAATGACATCTCATCCAAAAATCCGGAGAGCCCTCAGAAGGGGCC
AGAGCATTCGCTACTTGGTACCAGATCTTGTCCAAGAATACATTGAAAAGCATAATTTGTACAGCTCTGA
GAGTGAAGACAGGAATGCTGGGGTCATCTGGCCCTTTGCAGAGAAACACTGCAGAAGCTAAGACATAG
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001297778
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).



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<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>NM_001297778.1, NP_001284707.1</u>
<b>RefSeq Size:</b>	3796 bp
<b>RefSeq ORF:</b>	840 bp
<b>Locus ID:</b>	64802
<b>UniProt ID:</b>	<u>Q9HAN9</u>
<b>Cytogenetics:</b>	1p36.22
<b>Protein Pathways:</b>	Metabolic pathways, Nicotinate and nicotinamide metabolism
<b>Gene Summary:</b>	<p>This gene encodes an enzyme which catalyzes a key step in the biosynthesis of nicotinamide adenine dinucleotide (NAD). The encoded enzyme is one of several nicotinamide nucleotide adenylyltransferases, and is specifically localized to the cell nucleus. Activity of this protein leads to the activation of a nuclear deacetylase that functions in the protection of damaged neurons. Mutations in this gene have been associated with Leber congenital amaurosis 9. Alternative splicing results in multiple transcript variants. Pseudogenes of this gene are located on chromosomes 1, 3, 4, 14, and 15. [provided by RefSeq, Jul 2014]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>