OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

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:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

```
>OriGene sequence for NM_022787 edited
AGAGTGCGACCGAGATGTTCCACTCGCTGGCGTCCGGGCCGCTGGTGATCTCCGGTAGCA
CTCGGGCCGGCGGACAGTGAGGGCGCGACAACAAGGGAGGTGTCACAGTTTTCCATTTAG
ATCAACAACTTCAAGTTCTTACCATGGAAAATTCCGAGAAGACTGAAGTGGTTCTCCTTG
CTTGTGGTTCATTCAATCCCATCACCAACATGCACCTCAGGTTGTTTGAGCTGGCCAAGG
ACTACATGAATGGAACAGGAAGGTACACAGTTGTCAAAGGCATCATCTCTCCTGTTGGTG
ATGCCTACAAGAAGAAAGGACTCATTCCTGCCTATCACCGGGTCATCATGGCAGAACTTG
CTACCAAGAATTCTAAATGGGTGGAAGTTGATACATGGGAAAGTCTTCAGAAGGAGTGGA
AAGAGACTCTGAAGGTGCTAAGACACCATCAAGAGAAATTGGAGGCTAGTGACTGTGATC
ACCAGCAGAACTCACCTACTCTAGAAAGGCCTGGAAGGAAGAGGAAGTGGACTGAAACAC
AAGATTCTAGTCAAAAGAAATCCCTAGAGCCAAAAACAAAAGCTGTGCCAAAGGTCAAGC
TGCTGTGTGGGGCAGATTTATTGGAGTCCTTTGCTGTTCCCAATTTGTGGAAGAGTGAAG
ACATCACCCAAATCGTGGCCAACTATGGGCTCATATGTGTTACTCGGGCTGGAAATGATG
CTCAGAAGTTTATCTATGAATCGGATGTGCTGTGGAAACACCGGAGCAACATTCACGTGG
TGAATGAATGGATCGCTAATGACATCTCATCCACAAAAATCCGGAGAGCCCTCAGAAGGG
GCCAGAGCATTCGCTACTTGGTACCAGATCTTGTCCAAGAATACATTGAAAAGCATAATT
TGTACAGCTCTGAGAGTGAAGACAGGAATGCTGGGGTCATCCTGGCCCCTTTGCAGAGAA
ACACTGCAGAAGCTAAGACATAGGAATTCTACAGCATGATATTTCAGACTTCCCATTTGG
GGATCTGAAACAATCTGGGAGTTAATAACTGGGGAAAGAAGTTGTGATCTGTTGCCTAAA
CTAAAGCTTAAAAGTTTAGTAAAAATCGTCTGGGCACAGTGGCTCACGCCTGTAGTCCCA
GCTACTTGGGAGGCTGAGGCAGGAGAATCACTTGACCCCAGGTGGTGGAGGTTGCAGTGA
GCCAAGATTGCACCATTGCACTCCAGCCTGGCGACAGAGCAAGACTCTGTCTCAAAAAAA
AAAAAAAAATTTAGTAAAAATCAATGGTAAGCTAAAATAAGTTTTTGTTTGTTTATTTGT
TTTTGAGATGGAGTCTCTACTAAAAATACAAAAAATTAGCCAGGCATGGTGCCGCATAAC
TATAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCACAG
GTTCCAGTGGGCCAAGGTTGTGCCACTGCACTCCAGCCTGGGCAAAAAAGCAAAACTCCA
TCTCAAAGAGAAAAAAAAAAAAAGACCGGGTGTGGTGGCTCACACCTGTAATCCCAGCACT
TTGGGAGGCCTAAGTGGGTGGATCACGTGAGGTCAAGAGTTCAAGACCAGCCTGGCCAAT
ATGGTGAAACCCCATCTCTACTAAGAATACAAAAAATTAGCTGAGCATGGTGGTGGGCTC
CTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGCAGA
GGTTGCAGTAAGCCAAGATCGTGCCATTGCACTCCAGCCTGGGTGACAGAGCGAGACTCC
ATCTCAAAAAAAAAAAAAAAAAAAA
```

Restriction Sites: SgfI-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).

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_001297778.1, NP_001284707.1
RefSeq Size:	3796 bp
RefSeq ORF:	840 bp
Locus ID:	64802
UniProt ID:	Q9HAN9
Cytogenetics:	1p36.22
Protein Pathways:	Metabolic pathways, Nicotinate and nicotinamide metabolism
Gene Summary:	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] 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.