

## Product datasheet for **RC237125**

### NMNAT1 (NM\_001297778) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NMNAT1 (NM_001297778) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NMNAT1
Synonyms:	LCA9; NMNAT; PNAT1; SHILCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237125 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAATTCGAGAAGACTGAAGTGGTTCTCCTTGCTTGTGGTTCATTCAATCCCATCACCAACATGC  
ACCTCAGGTTGTTTGAGCTGGCCAAGGACTACATGAATGGAACAGGAAGGTACACAGTTGTCAAAGGCAT  
CATCTCTCCTGTTGGTGATGCCTACAAGAAGAAAGGACTATTCTCCTGCCTATCACCGGTCATCATGGCA  
GAATTGCTACCAAGAATTCTAAATGGGTGGAAGTTGATACATGGGAAAGTCTTCAGAAGGAGTGGAAAG  
AGACTCTGAAGGTGCTAAGACACCATCAAGAGAAATTGGAGGCTAGTGACTGTGATCACCAGCAGAACTC  
ACCTACTCTAGAAAGGCCTGGAAGGAAGAGGAAGTGGACTGAAACACAAGATTCTAGTCAAAGAAATCC  
CTAGAGCCAAAAACAAAAGCTGTGCCAAAAGTCAAGCTGCTGTGTGGGCGAGATTATTGGAGTCCTTTG  
CTGTTCCCAATTTGTGGAAGAGTGAAGACATCACCCAAATCGTGGCCAATATGGGCTCATATGTGTTAC  
TCGGGTGGAAATGATGCTCAGAAGTTTATCTATGAATCGGATGTGCTGTGGAACACCGGAGCAACATT  
CACGTGGTGAATGAATGGATCGCTAATGACATCTCATCCAAAAATCCGGAGAGCCCTCAGAAGGGGCC  
AGAGCATTGCTACTTGGTACCAGATCTGTCCAAGAATACATTGAAAAGCATAATTTGTACAGCTCTGA  
GAGTGAAGACAGGAATGCTGGGGTCATCTGGCCCTTTGCAGAGAAACACTGCAGAAGCTAAGACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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](#)

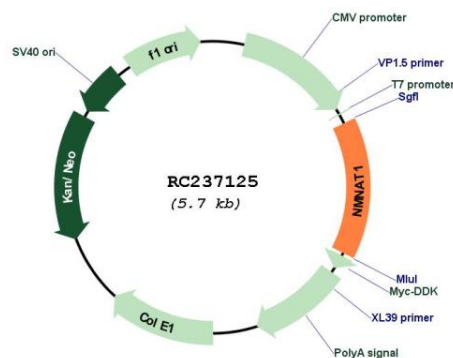
**Cytogenetics:** 1p36.22

**Protein Pathways:** Metabolic pathways, Nicotinate and nicotinamide metabolism

**MW:** 31.9 kDa

**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 adenyltransferases, 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]

## Product images:



Circular map for RC237125