

Product datasheet for RC231914

NMNAT3 (NM 001200047) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NMNAT3 (NM_001200047) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: NMNAT3

Synonyms: FKSG76; PNAT-3; PNAT3

Mammalian Cell Ne

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC231914 representing NM_001200047
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231914 representing NM_001200047

Red=Cloning site Green=Tags(s)

MKSRIPVVLLACGSFNPITNMHLRMFEVARDHLHQTAVPELKLLCGADVLKTFQTPNLWKDAHIQEIVEK FGLVCVGRVGHDPKGYIAESPILRMHQHNIHLAKEPVQNEISATYIRRALGQGQSVKYLIPDAVITYIKD

HGLYTKGSTWKGKSTQSTEGKTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

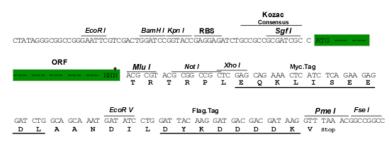
CN: techsupport@origene.cn

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Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001200047

ORF Size: 489 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>

OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: <u>NM 001200047.2</u>

RefSeq Size: 1801 bp
RefSeq ORF: 492 bp
Locus ID: 349565
UniProt ID: Q96T66
Cytogenetics: 3q23

Protein Pathways: Metabolic pathways, Nicotinate and nicotinamide metabolism

MW: 18.7 kDa

Gene Summary: This gene encodes a member of the nicotinamide/nicotinic acid mononucleotide

adenylyltransferase family. These enzymes use ATP to catalyze the synthesis of nicotinamide

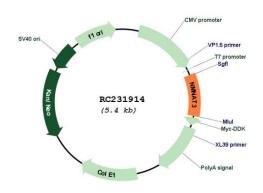
adenine dinucleotide or nicotinic acid adenine dinucleotide from nicotinamide

mononucleotide or nicotinic acid mononucleotide, respectively. The encoded protein is localized to mitochondria and may also play a neuroprotective role as a molecular

chaperone. Alternatively spliced transcript variants encoding multiple isoforms have been

observed for this gene. [provided by RefSeq, Jan 2011]

Product images:



Circular map for RC231914