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Product datasheet for RC206772

NMNAT3 (NM_178177) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NMNAT3 (NM_178177) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NMNAT3
Synonyms:	FKSG76; PNAT-3; PNAT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206772 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTACCAGGTCATCCAGGGTATCATCTCTCCTGTCAACGACACCTATGGGAAGAAAGACCTCGCAGCTT
CTCATCACCGAGTGGCCATGGCCCGGCTGGCCCTGCAGACATCCGACTGGATCCGGGTGGACCCTTGGGA
GAGTGAGCAGGCACAGTGGATGGAGACAGTGAAGGTGCTGAGGCATCATCACAGCAAACTGCTCAGATCT
CCACCCCAGATGGAAGGCCCAGACCATGGCAAGGCACTCTTCTCGACCCCTGCAGCTGTGCCTGAGCTGA
AGCTTCTCTGTGGGGCAGACGTCTTGAAGACCTTCCAGACCCCCAACCTCTGGAAGGATGCGCACATCCA
GGAAATAGTGGAGAAGTTTGGCTTGGTGTGCGTGGGCCGAGTAGGTCACGACCCAAAAGGTTACATCGCA
GAATCTCCCATCCTACGGATGCACCAGCACAACATTCACCTGGCCAAGGAGCCTGTGCAGAATGAGATCA
GTGCCACATACATCAGGCGAGCCTTGGGCCAAGGGCAGAGCGTAAAGTACCTGATTCCCGATGCTGTCAT
CACGTACATCAAGGACCATGGCCTCTACACCAAGGGCAGTACCTGGAAAGGCAAAAGCACCCAGAGCACT
GAGGGCAAGACAAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC206772 protein sequence
Red=Cloning site Green=Tags(s)

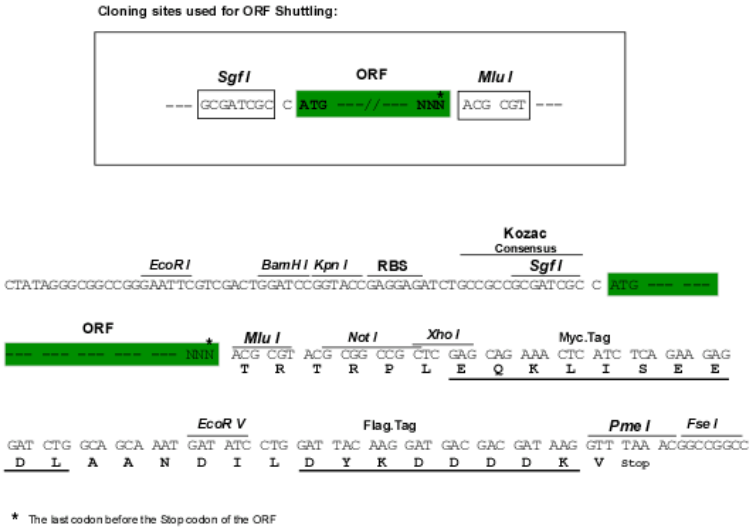
MYQVIQGIISPVNDTYGKKDLAASHHRVAMARLALQTSDWIRVDPWESEQAQWMETVKVLRHHHSKLLRS
PPQMEGPDHGKALFSTPAAVPELKLLCGADVLKTFQTPNLWKDAHIQEIVEKFGLVCVGRVGHDPKGYIA
ESPILRMHQHNIHLAKEPVQNEISATYIRRALGQGQSVKYLIPDAVITYIKDHGLYTKGSTWKGKSTQST
EGKTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6772_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178177

ORF Size: 645 bp

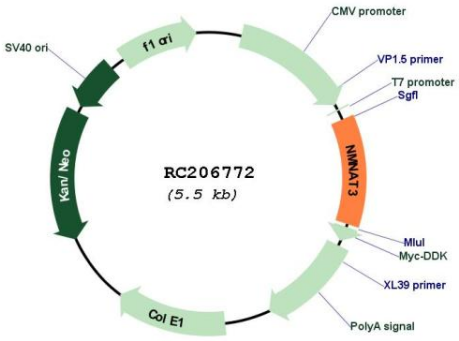
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@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. More info

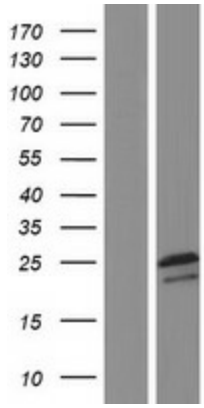
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_178177.4
RefSeq Size:	1919 bp
RefSeq ORF:	648 bp
Locus ID:	349565
UniProt ID:	Q96T66
Cytogenetics:	3q23
Protein Pathways:	Metabolic pathways, Nicotinate and nicotinamide metabolism
MW:	24.1 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 RC206772



Western blot validation of overexpression lysate (Cat# [LY406017]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206772 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).