

Product datasheet for **SC312888**

NMNAT2 (NM_015039) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NMNAT2 (NM_015039) Human Untagged Clone
Tag:	Tag Free
Symbol:	NMNAT2
Synonyms:	C1orf15; PNAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC312888 representing NM_015039. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCGAGACCACCAAGACCCACGTTATCTTGCTCGCCTGCGGCAGCTTCAATCCCATCACAAAGGG
CACATTAGATGTTTGAAGAGCCAGGGATTATCTGCACAAAACGGAAGGTTTATTGTGATTGGCGGG
ATTGTCTCCCCTGTCCACGACTCCTATGGAAAACAGGGCCTCGTGTCAAGCCGGCACCGTCTCATCATG
TGTCAGCTGGCCGTCCAGAATTCTGATTGGATCAGGGTGGACCCTTGGGAGTGCTACCAGGACACCTGG
CAGACGACCTGCAGCGTGTGGAACACCACCGGGACCTCATGAAGAGGGTGACTGGCTGCATCCTCTCC
AATGTCAACACACCTTCCATGACACCTGTGATCGGACAGCCACAAAACGAGACCCCCAGCCATTTAC
CAGAACAGCAACGTGGCCACCAAGCCCACTGCAGCCAAGATCTTGGGGAAGGTGGGAGAAAGCCTCAGC
CGGATCTGCTGTGTCGCCCCGCCGGTGGAGCGTTTACCTTTGTAGATGAGAATGCCAATCTGGGCACG
GTGATGCGGTATGAAGAGATTGAGCTACGGATCCTGCTGCTGTGTGGTAGTGACCTGCTGGAGTCCCTT
TGCATCCCAGGGCTCTGGAACGAGGCAGATATGGAGGTGATTGTTGGTGACTTTGGGATTGTGGTGGTG
CCCCGGGATGCAGCCGACACAGACCGAATCATGAATCACTCCTCAATACTCCGAAATACAAAAACAAC
ATCATGGTGGTGAAGGATGACATCAACCATCCCATGTCTGTTGTCAGCTCAACCAAGAGCAGGCTGGCC
CTGCAGCATGGGACGGCCATGTTGTGGATTACCTGTCCCAGCCGGTTCGACTACATCCTCAAAGC
CAGCTGTACATCAATGCCTCCGGCTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	SgfI-MluI
ACCN:	NM_015039
Insert Size:	924 bp



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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_015039.3</u>
RefSeq Size:	5579 bp
RefSeq ORF:	924 bp
Locus ID:	23057
UniProt ID:	<u>Q9BZQ4</u>
Cytogenetics:	1q25.3
Domains:	CTP_transf_2
Protein Pathways:	Metabolic pathways, Nicotinate and nicotinamide metabolism
MW:	34.4 kDa
Gene Summary:	<p>This gene product belongs to the nicotinamide mononucleotide adenylyltransferase (NMNAT) enzyme family, members of which catalyze an essential step in NAD (NADP) biosynthetic pathway. Unlike the other human family member, which is localized to the nucleus, and is ubiquitously expressed; this enzyme is cytoplasmic, and is predominantly expressed in the brain. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>