

Product datasheet for **MC212784**

Nmnat2 (NM_175460) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nmnat2 (NM_175460) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nmnat2
Synonyms:	AI843915; D030041I09Rik; PNAT1; PNAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_175460, the custom clone sequence may differ by one or more nucleotides

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ATGACCGAGACCACAAAGACCCACGTTATCCTGCTGGCCTGCGGCAGCTTCAATCCCATCTACTAAAGGGC
ACATTCAGATGTTTCGAGAGAGCCAGGGATTATCTGCACAAGACTGGAAGATTTATTGTGATTGGCGGGAT
TGTCTCTCCGGTCCATGACTCCTACGAAAAACAGGGCCTTGTGTCAAGTCGGCACCGTCTCATCATGTGT
CAGCTGGCTGTCCAGAATTCGACTGGATCAGGGTGGACCCATGGGAGTGCTATCAGGACACCTGGCAGA
CAACCTGCAGTGTGTTGGAGCACCATCGAGACCTGATGAAGAGGGTGACCGGCTGCATCCTCTCCAACGT
CAACACACCTTCCATGACACCTGTGATCGGACAGCCACAGCATGAGAACACCCAGCCATTTACCAGAAC
AGCAATGTGCCACCAAGCCCACTGCAGCCAAGATCTTGGGAAAGTGGGAGAAAGCCTCAGCCGGATCT
GCTGCGTCCGCCACCAAGTGGAGCGCTTCACTTTTGTAGATGAGAACGCCAACCTGGGCACAGTGATGCG
GTATGAGGAGATCGAGCTGCGCATCTTGCTGCTGTGTGGTAGTGACCTGCTGGAGTCTTTCTGCATCCCA
GGACTCTGGAATGAGGCAGATATGGAAGTGATTGTTGGGGACTTTGGGATCGTCGTGGTACCCAGGGATG
CAGCGGACACAGACCGGATCATGAATCACTCCTCCATACTCCGCAAGTACAAAAACAACATCATGTTGT
GAAGGATGATATCAACCATCCCATGTCTGTAGTCAGCTCCACCAAGAGCAGGCTGGCCCTGCAGCATGGG
GACGGCCATGTTGTGGATTACCTGTCCCAGCCAGTCATCGATTACATCCTCAAGAGTCAGCTGTACATCA
ACGCTCGGGCTAG
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_175460
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).
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:	BC089007 , AAH89007
RefSeq Size:	4548 bp
RefSeq ORF:	924 bp
Locus ID:	226518
UniProt ID:	Q8BNJ3
Cytogenetics:	1 G3
Gene Summary:	Nicotinamide/nicotinate-nucleotide adenyltransferase that acts as an axon maintenance factor (PubMed:20126265, PubMed:23082226). Catalyzes the formation of NAD(+) from nicotinamide mononucleotide (NMN) and ATP (By similarity). Can also use the deamidated form; nicotinic acid mononucleotide (NaMN) as substrate but with a lower efficiency (By similarity). Cannot use triazofurin monophosphate (TrMP) as substrate (By similarity). Also catalyzes the reverse reaction, i.e. the pyrophosphorolytic cleavage of NAD(+) (By similarity). For the pyrophosphorolytic activity prefers NAD(+), NADH and NaAD as substrates and degrades nicotinic acid adenine dinucleotide phosphate (NHD) less effectively (By similarity). Fails to cleave phosphorylated dinucleotides NADP(+), NADPH and NaADP(+) (By similarity). Axon survival factor required for the maintenance of healthy axons: acts by delaying Wallerian axon degeneration, an evolutionarily conserved process that drives the loss of damaged axons (PubMed:20126265, PubMed:23082226).[UniProtKB/Swiss-Prot Function]