

Product datasheet for **MC200575**

Nmnat3 (NM_144533) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nmnat3 (NM_144533) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nmnat3
Synonyms:	4933408N02Rik; PNAT3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC005737 sequence for NM_144533
 TGGGAGCGCAAGGTCAAGTTCACCTCGCGGCTCCGCCCCAGCCTGGGTCAAGACTAGTTAGTCTTAGGGC
 GATCTGCGGGGTGACCCATCCTGGTTCGAGCAGCAGATCCGCGGTCCCTGTTGACTCTGAGCGGAGCCCCG
 CGACGCGCAGGTAAGCACAGCCAGCGACCTTGGCTGCCTGCTTCGCCCCGCTGGGTGTCCACGAAGCCTT
 GAGTCCCCGCGTACCTACCAGGCCACGTGACTCTCGGGGGCGGCGACTCGGGCGCGCGCGCACGACA
 GAGTCAGATGGCTGTGGAGCGCAGAACCACGCTAGCCCCACGGTCACTTTTCTGACCGATTGGCTCGAGC
 TGACACGGGTTCGGATCCCCCTGCAGCACGTTTACAGTCAGTTAAAACAGGGTGGCCACTGCGGGTGTG
 GAGGTGTGTGACAGCATGAAGAACCGAATCCCTGTGGTGTCTTGGCCTGTGGTTCCCTTCAACCCCATCA
 CGAATATGCACCTGCGCTTGTGTTGAGGTGGCCAGAGACCCTACACCAAACAGGAAGGTACCAGGTGAT
 TGAGGGCATCATCTACCCGTCAATGACAGCTATGGGAAGAAAGACCTGGTGGCTTCCCATCACCGAGTG
 GCCATGGCCCGGCTGGCCCTGCAGACATCTGACTGGATTGCGGTGGACCCCTGGGAGAGTGAGCAGGCGC
 AGTGGATGAAACGGTGAAGGTGCTGAGGCACCATCACAGGGAGCTGCTCAGATCCTCAGCCAGATGGA
 TGGCCCAGACCCAGCAAGACACCATCAGCCTCTGCAGCACTGCCAGAGTTGAAACTCCTCTGCGGAGCT
 GATGTCCTCAAGACCTTCCAGACCCCCAACCTCTGGAAAGACACGCACATCCAGGAAATAGTGGAGAAGT
 TCGGCTTGGTGTGCGTGAGCAGGAGCGGTGATGACCCGAAAGGTACATCTCGGACTCGCCATCCTCCA
 GCAGTTTCAGCACAACATTCACCTGGCCAGGGAACCCGTTCTGAACGAGATCAGTGCCACATACGTCAGG
 AAAGCCTTGGGACAAGGGCAGAGCGTGAAGTACCTCCTCCTGAGGCCGTATCACCTACATCAGGGACC
 AGGGCCTTACATCAATGACGGTTCCTGGAAAGGAAAGGAAAGACTGGCTAGAGGGCCTCCTGGGGAGT
 AGGGGTATTCTGCTCTGGGTTCTGGGTTGTTTCCACAGTGGTTTTTTTTTACCATGGGTGACTTCTTAC
 TCCAGGAAGAGATCGTGCCTGTGGCAGAGACAGTCGAGTATCAGAGCAACTTAAGAGGCATGACAGGTCA
 TAAGATTAGGGTCACTAAGGAGGAGACCTGCTTACTGTGTAATGGCAGTCATGGGAGGCACACTGATGC
 GTCTCTGAGCATGGTTGGCCCCGAGGGTCCATCAAGTCGCCTTCGTTCCGGTTTTGTTTTTGTTTTTT
 GTTTTTAACTCGGGCCAGGTGCAGCATGCTGGTCTTGATAGGCAGAGTTTGACAGGGCGCTAATTAAGT
 AGCAGAGGACCTTTTCAACATCCTCGGCTCAAACAATAATAGCAAGTGAGGATTCAGAAATCTGGAACA
 GAACATCATTGATTTCCAATGTATCCTCCCTTGTAAACCATGGCCCTGCCTGCTGTCTGTCTGCCAC
 CTGCTGTGGTGAACATAAAATTTTTGACTACCTTCTTTCTATGTTGTGGTCAAGCAATATGTGTTTAA
 GATCTGTTTTATCATATGATCGTATGTGTGTGTGTGATGTCTTTACATGTGTGTGTACATGCACATG
 GGAGGGACATCAGAGTGCCTGAAACCAAGTACTGGCAGTTGTGAGCCCCCTGATGTGGGTGCTGGAAC
 CCAAACTCAGTCTTAGGGAAGAGCAGCAAGAGAGTCTTAACCACTAAGCTGTCTCTCCAGCCCCCTCA
 AGCAATATTTTTGATACACCATGATTTTTTACTACTGCTATACTCTAAGCACCAGGGTCCCAATATCCTG
 ATTTCTAAAAGGGAACCGAAGTAAAACAGATGCCTGACTGTTTTAGAAGATCTTTTGAATGTTTTATGAC
 TGCTGCTGTTTGAATATTGGCAAAAAGATAAATAATAAATTGACATCAAAAATACTAAAAAAAAAAAAAAA AAA

Restriction Sites: RsrII-NotI

ACCN: NM_144533

Insert Size: 738 bp

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:

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: [BC005737](#), [AAH05737](#)

RefSeq Size: 2173 bp

RefSeq ORF: 738 bp

Locus ID: 74080

UniProt ID: [Q99JR6](#)

Cytogenetics: 9 E3.3

Gene Summary: Catalyzes the formation of NAD(+) from nicotinamide mononucleotide (NMN) and ATP. Can also use the deamidated form; nicotinic acid mononucleotide (NaMN) as substrate with the same efficiency. Can use triazofurin monophosphate (TrMP) as substrate. Can also use GTP and ITP as nucleotide donors. Also catalyzes the reverse reaction, i.e. the pyrophosphorolytic cleavage of NAD(+). For the pyrophosphorolytic activity, can use NAD(+), NADH, NaAD, nicotinic acid adenine dinucleotide phosphate (NHD), nicotinamide guanine dinucleotide (NGD) as substrates. Fails to cleave phosphorylated dinucleotides NADP(+), NADPH and NaADP(+). Protects against axonal degeneration following injury.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.