

## Product datasheet for **MC200248**

### Nampt (NM\_021524) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nampt (NM_021524) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nampt
Synonyms:	1110035O14Rik; AI314458; AI480535; NAmPRTase; Pbef; Pbef1; Visfatin
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >BC004059 sequence for NM\_021524  
 GCGCCGGGCAGCTCGTGGCGCGGCTCTCCGCTCCGGCCCGAGATGAATGCTGCGGCAGAAAGCCGAGTTC  
 AACATCCTGCTGGCCACCGACTCGTACAAGTTACTACTATAAAACAATACCCACCCAACACAAGCAAAG  
 TTTATTCCTACTTTGAATGCCGTGAAAAGAAGACAGAAAACCTCCAAGTAAGGAAGGTGAAATACGAGGA  
 AACAGTATTTTATGGGTTGCAGTACATTCTTAATAAGTACTTAAAAGGTAAGTAGTGACCAAAGAGAAA  
 ATCCAGGAGGCCAAAGAAGTGTACAGAGAACATTTCCAAGATGATGTCTTTAACGAAAGAGGATGGAATC  
 ACATCCTTGAGAAATACGATGGTCATCTCCAATTGAAGTAAAGGCTGTTCCCGAGGGCTGTGCATCCC  
 CAGAGGGGAACGTGCTGTTACAGTGGAAAACACAGACCCAGAGTGTACTGGCTTACCAATTGGATTGAG  
 ACTATTCTTGTTCACTCCTGGTATCCAATTACAGTGGCCACAAATTCCAGAGAACAGAAGAAAATACTGG  
 CCAAAATTTTGTAGAAACCTCTGGTAACTTAGATGGTCTGGAATACAAGTTACATGACTTTGGTTACAG  
 AGGAGTCTCTTCGCAAGAGACTGCTGGCATAGGGGCATCTGCTCATTTGGTTAACTTTAAAGGAACAGAT  
 ACTGTGGCGGGAATTGCTCTAATTAATAAAATACTATGGGACAAAAGATCCTGTTCCAGGCTATTCTGTT  
 CAGCAGCAGAGCACAGTACCATAACGGCTTGGGGGAAAGACCATGAGAAAGATGCTTTTGAACACATAGT  
 AACACAGTTCTCATCAGTGCCTGTGTCTGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAA  
 ATATGGGGTGAAGACCTGAGACATCTGATAGTATCGAGAAGTACAGAGGCCACCAATCATCAGACCTG  
 ACTCTGGAATCCTCTTGACACTGTATTGAAGGCTTAGATATTTTAGGCAAGAAGTTTCCCTGTTACTGA  
 GAACTCAAAGGCTACAAGTTGCTGCCACCTTATCTTAGAGTCATTCAAGGAGATGGCGTGGATATCAAT  
 ACTTTACAAGAGATTGTAGAGGGAATGAAACAAAAGAAGTGGAGTATCGAGAATGTCTCCTTCGGTTCTG  
 GTGGCGCTTTGCTACAGAAGTTAACCCGAGACCTCTTGAATTGCTCCTTCAAGTGCAGCTATGTTGTAAC  
 CAATGGCCTTGGGGTTAATGTGTTAAGGACCCAGTTGCTGATCCCAACAAAAGGTCAAAAAAGGCCGG  
 TTATCTTTACATAGGACACCAGCGGGAACTTTGTTACTTTGAAGAAGGAAAAGGAGACCTTGAGGAAT  
 ATGGCCATGATCTTCCATACGGTTTTCAAGAATGGGAAGGTGACAAAAAGCTACTCATTGATGAAGT  
 CAGAAAAATGCACAGCTGAACATCGAGCAGGACGTGGCACCTCATTAGGCTTCATGTGGCCGGTTGTT  
 ATGTGTGCAGTGTGTATACATACATGCACGTATGTGTGCGCCTGTGCGTATGTAATAACATGTTCAAT  
 GTACAGATGTGTGGTTCGTGTTATGATACACTGCAGCCAGATTATTTGTTGGTTTATGGACATACTGC  
 CCTTTTTATTTTCTCCAGTGTTAGATGATCTCAGATTAGAAAACACTTACAACCATGTACAAGATTA  
 ATGCTGAAGCAAGCTTTTCAGGGTCCTTTGCTAATAGATAGTAATCCAATCTGGTGTGATCTTTTCACA  
 AATAACAAACCAAGAACTTTTATATAACTACAGATCACATAAAACAGATTTGCATAAAATTACCATG  
 CCTGCTTTATGTTTATTTAACTTGTATTTTGTACAAACGAGATTGTGTAAGATATATTTAAAGTTTC  
 AGTGATTTACCAGTCTGTTTCCAACCTTTTCATGATTTTTATGAGCACAGACTTTCAAGAAAATACTTGAA  
 ATAAATTACATTGCCTTTTGTCCATTAATCAGCAAATAAAACATGGCCTTAACCAAGTTGTTTGTGGTGT  
 TGTACATTTGCAAATTATGTGAGCAGACAGATACCCAACAGAGTTCCGAACATCACTGCCCTGTAGA  
 GTATGCAGCAGTCAATCTCCGTGGAAGAGAAGAATGGTCTTACGCGAATGTTTAGGCATTGTACAATTC  
 TGTGCCCTGGTCAGTGTATATGTACCAGTATGCAAAATCCCAAAGGCCTGTTCTGCAATTTTATATGTC  
 GGATATTGCCTGTGGCTAATATGCACCTCAAGATTTTAAAGAAGATAATGTTTTTAGAGAGAATTTCTG  
 CTTCCACTATAGAATATATACATAAATGAAAAATTGAAAGTGGAAAGTAGTGTATTTTAAAGTAATTAC  
 ACTTCTGAATTTATTTTTCATTTCTATAGTTGGTATGTCTTAAATGAATTGCTGGAGTGGGTAGTGAGT  
 GTACTTATTTTAAATGTTTTGATTCTGTATATTTTTCATTAAGTTTTTTAAAAATTAATTTGGATATTA  
 ACTGTAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_021524
- Insert Size:** 1476 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:** [BC004059](#), [AAH04059](#)

**RefSeq Size:** 2633 bp

**RefSeq ORF:** 1476 bp

**Locus ID:** 59027

**UniProt ID:** [Q99KQ4](#)

**Cytogenetics:** 12 A3

**Gene Summary:** The secreted form behaves both as a cytokine with immunomodulating properties and an adipokine with anti-diabetic properties, it has no enzymatic activity, partly because of lack of activation by ATP, which has a low level in extracellular space and plasma (By similarity). Catalyzes the condensation of nicotinamide with 5-phosphoribosyl-1-pyrophosphate to yield nicotinamide mononucleotide, an intermediate in the biosynthesis of NAD. It is the rate limiting component in the mammalian NAD biosynthesis pathway. Plays a role in the modulation of circadian clock function. NAMPT-dependent oscillatory production of NAD regulates oscillation of clock target gene expression by releasing the core clock component: CLOCK-ARNTL/BMAL1 heterodimer from NAD-dependent SIRT1-mediated suppression. [UniProtKB/Swiss-Prot Function]