

## Product datasheet for **MR207867**

### Nampt (NM\_021524) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nampt (NM_021524) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nampt
Synonyms:	1110035O14Rik; AI314458; AI480535; NAmPRTase; Pbef; Pbef1; Visfatin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207867 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAATGCTGCGGCAGAAGCCGAGTTCAACATCCTGCTGGCCACCGACTCGTACAAGTTACTACTATA  
 AACAAATACCCACCAACACAAGCAAAGTTTATTCTACTTTGAATGCCGTGAAAAGAAGACAGAAA  
 CAAAGTAAAGGAAGTGAATACGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTTAATAAGTACTTA  
 AAAGGTAAGTAGTGACCAAAGAGAAAAATCCAGGAGGCCAAAGAAGTGTACAGAGAACATTTCCAAGATG  
 ATGTCTTTAACGAAAGAGGATGGAACACATCCTTGAGAAATACGATGGTCATCTCCCAATTGAAGTAAA  
 GGCTGTTCCCGAGGGCTCTGTATCCCCAGAGGGAACGTGCTGTTACAGTGGAAAACACAGACCCAGAG  
 TGCTACTGGCTTACCAATTGGATTGAGACTATTCTTGTTCAGTCTGGTATCCAATTACAGTGGCCACAA  
 ATTCCAGAGAACAGAAGAAAATACTGGCCAAATATTTGTTAGAAACCTCTGGTAACTTAGATGGTCTGGA  
 ATACAAGTTACATGACTTTGGTTACAGAGGAGTCTCTTCGAAGAGACTGCTGGCATAGGGGCATCTGCT  
 CATTTGGTTAACTTTAAAGGAACAGATACTGTGGCGGGAATTGCTCTAATTAATAAAAACTACTAGGGACAA  
 AAGATCCTGTTCCAGGCTATTCTGTTCCAGCAGCAGAGCACAGTACCATAACGGCTTGGGGGAAAGACCA  
 TGAGAAAGATGCTTTTGAACACATAGTAACACAGTTCTCATCAGTGCCTGTGTCTGTGGTCTGAGCAGT  
 TATGACATTTATAATGCGTGTGAGAAAAATAGGGGTGAAGACCTGAGACATCTGATAGTATCGAGAAGTA  
 CAGAGGCCACCACTAATCATCAGACCTGACTCTGAAAATCCTCTTGACACTGTATTGAAGGTCTTAGATAT  
 TTTAGGCAAGAAGTTTCTGTTACTGAGAACTCAAAGGCTACAAGTTGCTGCCACCTTATCTTAGAGTC  
 ATTCAAGGAGATGGCGTGGATATCAATACTTTACAAGAGATTGTAGAGGGAATGAAACAAAAGAAGTGA  
 GTATCGAGAATGCTCCTTCGGTCTGGTGGCGCTTGGCTACAGAAGTTAACCCGAGACCTTTGAATTG  
 CTCCTTCAAGTGCAGCTATGTTGTAACCAATGGCCTTGGGGTTAATGTGTTTAAGGACCCAGTTGCTGAT  
 CCCAACAAAAGGTCAAAAAGGGCCGGTTATCTTTACATAGGACACCAGCGGGAACTTTGTTACTCTTG  
 AAGAAGGAAAAGGAGACCTTGAGGAATATGGCCATGATCTTCTCCATACGGTTTTCAAGAATGGGAAGGT  
 GACAAAAGCTACTCATTTGATGAAGTCAGAAAAATGCACAGCTGAACATCGAGCAGGACGTGGCACCT  
 CAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207867 protein sequence  
 Red=Cloning site Green=Tags(s)

MNAAAEAEFNILLATDSYKVVHYKQYPPNNTSKVVSYFECREKKTENSKVRKVKYEETVFYGLQYILNKYL  
 KGKVVVTEKIQEAKVEYREHFQDDVFNERGWNYILEKYDGHLPYEVKAVPEGSVIPRGNLFTVENTDPE  
 CYWLTNWIETILVQSWYPIITVATNSREQKILAKYLLETSGNLDGLEKYLHDFGYRGVSSQETAGIGASA  
 HLVNFKGTDTVAGIALIKKYYGKDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVVSDS  
 YDIYNACEKIWGEDLRHLIVSRSTEAPLIIRPDSGNPLDVLKVLIDILGKFPVTENSKYKLLPPYLRV  
 IQGDGVDINTLQEIIVEGMKQKKWSIENVFSGGGALLQKLTRDLLNCSFKSYVVTNGLGVNVFKDPVAD  
 PNKRSKKGRSLHRTFAGNFVTLLEEGKGDLEEYGHDLHTVFKNGKVTKSYSFDEVRKNAQLNIEQDVAP  
 H

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

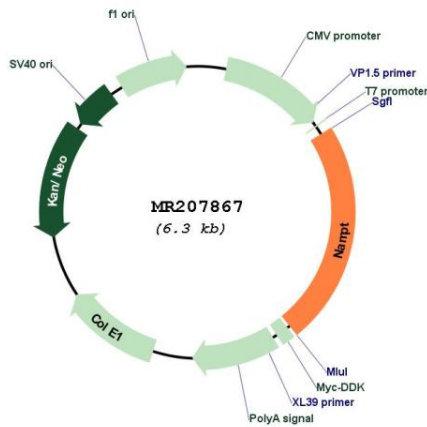
Sgfl-Mlul



RefSeq Size: 4547 bp  
 RefSeq ORF: 1476 bp  
 Locus ID: 59027  
 UniProt ID: [Q99KQ4](#)  
 Cytogenetics: 12 A3  
 MW: 55.4 kDa

**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]

**Product images:**



Circular map for MR207867