

## Product datasheet for **MC200839**

### **Pbef1 (BC018358) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pbef1 (BC018358) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pbef1
Synonyms:	Nampt, Pbef, Visfatin
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC018358  
 CCGAGCCGCGGGAAAGCCGCGGAGCGCGCTGGGCAGGGGAGCGCGCTAGCCTCCACCGCCGCGTCACG  
 GACCTGCCCGCCCTCCCGGCCCTCCCCGCGCTCCGTTCCCTGCTCTCCCGCCCCCTGCGAGCGAGCGG  
 TGACTTAAGCAACGGAGCGCAGCGAAGCCATTTTTCTCCTTGCTCGCAGCCGCGCCGGGAGCTCGTGG  
 CGCGGCGTCTCCGCTCCGGCCGAGATGAATGCTGCGGCAGAAGCCGAGTTCAACATCCTGCTGGCCACC  
 GACTCGTACAAGTTACTCACTATAACAATACCCACCAACAAGCAAAGTTTATTCCTACTTTGAAT  
 GCCGTGAAAAGAAGACAGAAAACCTCCAAAGTAAGGAAGGTGAAATACGAGGAAACAGTATTTATGGGTT  
 GCAGTACATTCTAATAAGTACTTAAAAGGTAAGTAGTGACCAAAGAGAAAATCCAGGAGGCCAAAGAA  
 GTGTACAGAGAACATTTCCAAGATGATGCTTTAACGAAAGAGGATGAACTACATCCTTGAGAAATACG  
 ATGGTCATCTCCCGATTGAAGTAAAGGCTGTTCCCGAGGGCTCTGTCATCCCCAGAGGGAACGTGCTGTT  
 CACAGTGGAAAACACAGACCCAGAGTGCTACTGGCTTACCAATTGGATTGAGACTATTCTTGTTCACTCC  
 TGGTATCCAATTACAGTGGCCACAAATCCAGAGAACAGAAGAAAATACTGGCCAAATATTTGTTAGAAA  
 CCTCTGGTAACTTAGATGGTCTGGAATACAAGTTACATGACTTTGGTTACAGAGGAGTCTCTTCGAAGA  
 GACTGCTGGCATAGGGGCATCTGCTCATTGGTTAACTTTAAAGGAACAGATACTGTGGCGGAATTGCT  
 CTAATTAATAAAATACTATGGGACAAAAGATCCTGTTCCAGGCTATTCTGTTCCAGCAGCAGAGCACAGTA  
 CCATAACGGCTTGGGGGAAAGACCATGAGAAAGATGCTTTTGAACACATAGTAACACAGTCTCATCAGT  
 GCCTGTGTCTGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGGGGTGAAGACCTG  
 AGACATCTGATAGTATCGAGAAGTACAGAGGCACCACTAATCATCAGACCTGACTCTGGAATCCTCTTG  
 AACTGTATTGAAGGCTTAGATATTTTAGGCAAGAAGTTTCTGTTACTGAGAACTCAAAGGCTACAA  
 GTTGCTGCCACCTTATCTTAGAGTCATTCAGGAGATGGCGTGGATATCAATACTTTACAAGAGATTGTA  
 GAGGGAATGAAACAAAAGAAGTGGAGTATCGAGAATGTCTCCTTCGGTTCTGGTGGCGCTTTGCTACAGA  
 AGTTAACCCGAGACCTCTTGAATTGCTCCTTCAAGTGCAGCTATGTTGTAACCAATGGCCTTGGGGTTAA  
 TGTGTTTAAAGACCCAGTTGCTGATCCCAACAAAAGGTCAAAAAGGGCCGGTTATCTTTACATAGGACA  
 CCAGCGGGGAACCTTTGTTACACTTGAAGAAGGAAAAGGAGACCTTGAGGAATATGGCCATGATCTTCTCC  
 ATACGGTTTTCAAGAATGGGAAGGTGACAAAAGCTACTATTTGATGAAAGTCAAGAAAATGCACAGCT  
 GAACATCGAGCAGGACGTGGCACCTCATTAGGCTTATGTTGGCCGGTGTATGTGTGTCAGTGTGTGTA  
 TACATACATGCACGTATGTGTGCGCCTGTGCGTATGTAATAACATGTTTATTGTACAGATGTGTGGGTTT  
 GTGTTTATGATACACTGCAGCCAGATTATTTGTTGTTTATGGACATACTGCCCTTTTTATTTTTCTCCC  
 AGTGTATAGATGATCTCAGATTAGAAAACACTTACAACCATGTACAAGATTAATGCTGAAGCAAGCTTTT  
 CAGGGTCTTTGCTAATAGATAGTAATCCAATCTGGTGTGATCTTTTCAAAAATAACAAACCAAGAAAC  
 TTTTATATATAACTACAGATCACATAAAACAGATTTGCATAAAATACCATGCCTGCTTTATGTTTATAT  
 TTAACCTGATTTTTGTACAAACGAGATTGTGTAAGATATATTTAAAGTTTCAGTGATTTACCAGTCTGT  
 TTCCAACCTTTTATGATTTTTATGAGCACAGACTTTCAAGAAAATACTTGAATAAATTACATTGCCTTT  
 TGTCATTAATCAGCAAATAAAACATGGCCTTAACCAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** BC018358

**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:** [BC018358](#), [AAH18358](#)

**RefSeq Size:** 2292 bp

**RefSeq ORF:** 1476 bp

**Locus ID:** 59027

**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]