

Product datasheet for **SC111136**

Visfatin (NAMPT) (NM_005746) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Visfatin (NAMPT) (NM_005746) Human Untagged Clone
Tag:	Tag Free
Symbol:	Visfatin
Synonyms:	1110035O14Rik; PBEF; PBEF1; VF; VISFATIN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC111136 sequence for NM_005746 edited (data generated by NextGen Sequencing)

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ATGAATCTGCGGCAGAAGCCGAGTTCAACATCCTCTGGCCACCGACTCCTACAAGGT
ACTCACTATAACAATATCCACCAACACAAGCAAAGTTTATTCTACTTTGAATGCCGT
GAAAAGAAGACAGAAAACCTCAAATTAAGGAAGGTGAAATATGAGGAAACAGTATTTTAT
GGGTTGCAGTACATTCTTAATAAGTACTTAAAAGTAAAGTAGTAACCAAAGAGAAAATC
CAGGAAGCCAAAGATGTCTACAAAGAACATTTCCAAGATGATGTCTTTAATGAAAAGGGA
TGGAACTACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAAATAAAAGCTGTTCT
GAGGGCTTTGTCATTCCAGAGGAAATGTTCTCTTACGGTGGAACACAGATCCAGAG
TGTTACTGGCTTACAATTGGATTGAGACTATTCTTGTTCAGTCTGGTATCCAATCACA
GTGGCCACAAATTCTAGAGAGCAGAAGAAAATATTGGCCAAATATTTGTTAGAACTTCT
GGTAACTTAGATGGTCTGGAATACAAGTTACATGATTTTGGCTACAGAGGAGTCTCTCC
CAAGAGACTGCTGGCATAGGAGCATCTGCTCACTTGGTTAACTTCAAAGGAACAGATACA
GTAGCAGGACTTGCTCTAATTAATAAATATTATGGAACGAAAGATCCTGTTCCAGGCTAT
TCTGTTCCAGCAGCAGAACACAGTACCATAACAGCTTGGGGGAAAGACCATGAAAAGAT
GCTTTTGAACATATTGTAACACAGTTTTTATCAGTGCCTGTATCTGTGGTCAGCGATAGC
TATGACATTTATAATGCCTGTGAGAAAATATGGGGTGAAGATCTAAGACATTTAATAGTA
TCGAGAAGTACACAGGCACCACTAATAATCAGACCTGATTCTGGAACCCCTTTGACACT
GTGTTAAAGGTTTTGGAGATTTTAGGTAAGAAGTTTCTGTTACTGAGAACTCAAAGGT
TACAAGTTGCTGCCACCTTATCTTAGAGTTATTCAAGGGGATGGAGTAGATTAATAACC
TTACAAGAGATTGTAGAAGGCATGAAACAAAAATGTGGAGTATTGAAAATATTGCCTTC
GGTCTGGTGGAGTTTTGCTACAGAAGTTGACAAGAGATCTCTTGAAATTGTTCTTCAAG
TGATGATGTTGTAACATAATGGCCTTGGGATTAACGTCTTCAAGGACCCAGTTGCTGAT
CCCAACAAAAGGTCCAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTT
GTTACACTGGAGGAAGGAAAAGGAGACCTTGAAGAAATATGGTCAGGATCTTCTCCACT
GTCTTCAAGAATGGCAAGGTGACAAAAGCTATTCAATTTGATGAAATAAGAAAAATGCA
CAGCTGAATATTGAACTGGAAGCAGCACATCATTAG
    
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Clone variation with respect to NM_005746.2
903 a=>g

5' Read Nucleotide Sequence: >OriGene 5' read for NM_005746 unedited

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TATACGACTCCTATAGGGCGGCCGCAATTTCGCACGAGGGTGAAGCTCATTTTTCTCCTT
CCTCGCAGCCGCGCCAGGGAGCTCGCGGCGCGGGCTCCTGTCTCCGGCCCGAGATGAA
TCCTGCGGCAGAAGCCGAGTTCAACATCCTCTGGCCACCGACTCCTACAAGTTACTCA
CTATAACAATATCCACCAACACAAGCAAAGTTTATTCTACTTTGAATGCCGTGAAAA
GAAGACAGAAAACCTCAAATTAAGGAAGGTGAAATATGAGGAAACAGTATTTTATGGGTT
GCAGTACATTCTTAATAAGTACTTAAAAGTAAAGTAGTAACCAAAGAGAAAATCCAGGA
AGCCAAAGATGTCTACAAAGAACATTTCCAAGATGATGTCTTTAATGAAAAGGGATGGAA
CTACATTTCTGAGAAGTATGATGGGCATCTTCCAATAGAAAATAAAAGCTGTTCTGAGGG
CTTTGTCAATCCAGAGGAAATGTTCTCTTACGGTGGAACACAGATCCAGAGTGTTA
CTGGCTTACAATTGGATTGAGACTATTCTTGTTCAGTCTGGTATCCAATCACAGTGGC
CACANATTCTAGAGAGCAGAGAAAATATTGGCCAAATATTTGTTAGAACTTTCTGGGTA
CTTAGATGGTCTGGAATACAANGTACATGAATNTGGCTACAGAAGGAGTCTCTTNCCAA
GAGACTGCTGGCATAAGAGCATCTGCTCACTTGGGTAACTTCAAGGAACCGATACAGTA
CCAGGGACTTGCTCTTATTAATAAATATTATGGACGAAAGGATCCTGTTCCAGGCTTATT
TTGTTCCACAGCAGAACCAGTNCCTTTACAGCTTGGGGGAAAGCATGAANAAAATGCT
TTGACATATTGAACCAAGTTTTATAAGGCCTGGTATTTGGGGCACGAA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005746 unedited GGGCTTAGCTTGCCCGCGCCGCTTTCTANGATCGAGTTTTTTTTTTTTTTTTTTGTTAA GGCCATGTTTTATTTGCTGATTAATGGACAAAAGGCAATGTAATTTATTTCAAGTATTT TCTTGAAAGTCTGTGCTCATAAAAATCATGAAAAGTTGGAAGACTGTAAATCACTGAA ACTTCAAATATATCTTACACAATCTTGTGTACAAAAATACAAGTTAAATATAAACATA AAGCAATCATGGTAATTTTATGCAAAATCTGTTTTATGTGATCATCAGTTATATATAAAG TTTCTCAGTTCTGTTATTTGTGAAAAGATCAATACCAGATTGAATGACTACCTATTGGCA AAGGGCCCTAAAAAGCTTACTTTAGCACTCATTTTTACATGGTTAAATGCATTTCTCTAA TTTGAGATCACCTAAACACTGGAAAAGAAAAAATGAAAGGGCAGTATGTCCATAAACCC AACAAATAATTTGGCTGTAATGTATCATAAAACACAAACCCACACATCTGTACAATAAA CATTATGTATTACATACACACACACACCCAGTCATAAAGCCTAATGATGTGCTGCTT CCAGTTCAATATTCAGCTGTGCATTTTTCTTATTTTCATCAAATGAATAGCTTTTTGTCA CCTTGCCATTCTGAAGACAGTATGGAGAAGATCCTGACCATATTCCTCAAGGTCTCCTT TTCCTTCTCCAGNGTAACAAAATCCCTGCTGCGTCTATGTAAGATAATCGGCCCTTT TTGGACCTTTTGTGGGATCAGCAACTGGGTTCTTGAAGACGTTAATCCCAGGCCATTA GTTACCACATAGCTACACTTTGAAGAACCATTCAAGAGACTTTTGCCACTTCTGC
Restriction Sites:	NotI-NotI
ACCN:	NM_005746
Insert Size:	2100 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:	<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:	<u>NM_005746.1, NP_005737.1</u>
RefSeq Size:	2376 bp
RefSeq ORF:	1476 bp
Locus ID:	10135
UniProt ID:	<u>P43490</u>
Cytogenetics:	7q22.3
Domains:	NAPRTase
Protein Families:	Druggable Genome

Protein Pathways: Nicotinate and nicotinamide metabolism

Gene Summary: This gene encodes a protein that catalyzes the condensation of nicotinamide with 5-phosphoribosyl-1-pyrophosphate to yield nicotinamide mononucleotide, one step in the biosynthesis of nicotinamide adenine dinucleotide. The protein belongs to the nicotinic acid phosphoribosyltransferase (NAPRTase) family and is thought to be involved in many important biological processes, including metabolism, stress response and aging. This gene has a pseudogene on chromosome 10. [provided by RefSeq, Feb 2011]