

Product datasheet for **RC210707**

Visfatin (NAMPT) (NM_005746) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Visfatin (NAMPT) (NM_005746) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Visfatin
Synonyms:	1110035O14Rik; PBEF; PBEF1; VF; VISFATIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210707 representing NM_005746
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATCCTCGCGCAGAAGCCGAGTTCAACATCCTCTGGCCACCGACTCTACAAGTTACTACTATA
 AACAAATATCCACCAACACAAGCAAAGTTTATTCTACTTTGAATGCCGTGAAAAGAAGACAGAAA
 CAAATTAAGGAAGGTGAAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTTAATAAGTACTTA
 AAAGGTAAGTAGTAACCAAAGAGAAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTCCAAGATG
 ATGTCTTTAATGAAAAGGGATGGAACACTACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAA
 AGCTGTTCTGAGGGCTTTGTCATTCCCAGAGGAAATGTTCTCTCACGGTGAAAACACAGATCCAGAG
 TGTTACTGGCTTACAAATTGGATTGAGACTATTCTTGTTCAGTCTGGTATCCAATCACAGTGGCCACAA
 ATTCTAGAGAGCAGAAGAAAATATTGGCCAAATATTTGTTAGAAACTTCTGGTAACCTAGATGGTCTGGA
 ATACAAGTTACATGATTTTGGCTACAGAGGAGTCTTCCCAAGAGACTGCTGGCATAGGAGCATCTGCT
 CACTTGGTTAACTTCAAAGGAACAGATACAGTAGCAGGACTTGCTCTAATTAATAAAAAATATTATGGAACGA
 AAGATCCTGTTCCAGGCTATTCTGTTCCAGCAGCAGAACACAGTACCATAACAGCTTGGGGGAAAGACCA
 TGAAAAAGATGCTTTTGAACATATTGTAACACAGTTTTTCATCAGTGCCTGTATCTGTGGTCCAGCATAGC
 TATGACATTTAATGCGTGTGAGAAAAATGAGGGTGAAGATCTAAGACATTTAATAGTATCAAGAAGTA
 CACAGGCACCACTAATAATCAGACCTGATTCTGAAAACCTCTTGACACTGTGTTAAAGGTTTTGGAGAT
 TTTAGGTAAGAAGTTTCTGTTACTGAGAACTCAAAGGTTACAAGTGTGCGCCACCTTATCTTAGAGTT
 ATTCAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAAGGCATGAAAACAAAAATGTGGA
 GTATTGAAAATATTGCCCTCGTTCTGGTGGAGTTTGTACAGAAGTTGACAAGAGATCTTGAATTG
 TTCCTTCAAGTGTAGCTATGTTGTAACATAATGGCCTTGGGATTAACGTCTTCAAGGACCCAGTTGCTGAT
 CCCAACAAAAGGTCCAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTTGTACTACTGG
 AGGAAGGAAAAGGAGACCTTGAGGAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAGGT
 GACAAAAGCTATTCATTTGATGAAATAAGAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACAT
 CAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210707 representing NM_005746
 Red=Cloning site Green=Tags(s)

MNPAEAEEFNILLATDSYKVTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKYEEETVFYGLQYILNKYL
 KGKVVVTEKEIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLPKIEIKAVPEGFVIPRGNLFTVENTDPE
 CYWLTNWIETILVQSWYPIITVATNSREQKILAKYLLETSGNLDGLEKYLHDFGYRGVSSQETAGIGASA
 HLVNFKGTDTVAGLALIKKYYGKDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVVSDS
 YDIYNACEKIWGEDLRHLIVSRSTQAPLIIRPDSGNPLDTVLKYLEILGKKFPVTENSKGYKLLPPYLRV
 IQGDGVDINTLQEIIVEGMKQKMWSIENIAFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVAD
 PNKRSKKGRSLHRTFAGNFVTL EEGKGDLEEYQDILLHTVFKNGKVTKSYSFDEIRKNAQLNIELEAAH
 H

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2453_f08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_005746

ORF Size: 1473 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_005746.3](#)

RefSeq Size: 4593 bp

RefSeq ORF: 1476 bp

Locus ID: 10135

UniProt ID: [P43490](#)

Cytogenetics: 7q22.3

Domains: NAPRTase

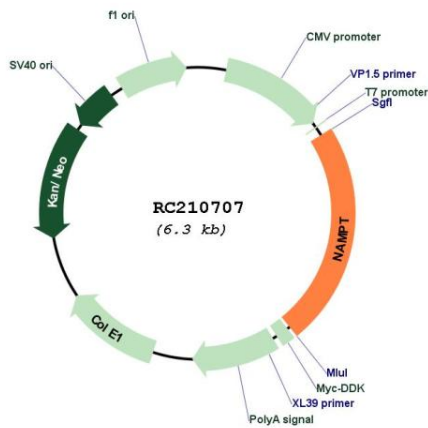
Protein Families: Druggable Genome

Protein Pathways: Nicotinate and nicotinamide metabolism

MW: 55.52 kDa

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]

Product images:



Circular map for RC210707