

Product datasheet for **RC213006**

VNN2 (NM_078488) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VNN2 (NM_078488) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VNN2
Synonyms:	FOAP-4; GPI-80
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213006 representing NM_078488
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACGAGAATATAGACATTCTGGAGACAGCGATCAAGCAGGCAGCTGAGCAGGGTCTCGAATCATTG
 TGACTCCAGAAGATGCACTTTATGGATGAAAATTTACCAGGGAACTGTTTTCCCTTATCTGGAGGATAT
 CCCAGACCCTCAGGTGAACTGGATTCCGTGTCAAGACCCACAGATTTGGTCACACACCAGTACAAGCA
 AGACTCAGCTGCCTGGCCAAGGACAACCTATCTATGTCTTGGCAAATTTGGGGACAAAAGCCATGTA
 ATCCCGTGACTCCACATGTCTCCTAATGGCTACTTTCAATAACAATACCAATGTGGTGTATAATACAGA
 AGGAAAACCTCGTGGCACGTTACCATAAGTACCACCTGTACTCTGAGCCTCAGTTAATGTCCTGAAAAG
 CCGGAGTTGGTGACTTTCAACACCGCATTTGGAAGTTTGGCATTTCACGTGCTTTGATATATTCTTCT
 ATGATCCTGGTGTACCCTGGTAAAGATTTCCATGTGGACACCATACTGTTCCACAGCTTGGATGAA
 CGTTTTGCCCTTTTACAGCTATTGAATTCATTGAGCTTGGCAATGGGAATGGGAGTTAATCTTCTT
 GTGGCCAAACACATCATGTGAGCCTAAATATGACAGGAAGTGGTATTTATGCACCAAATGGTCCCAAAG
 TGTATCATTATGACATGAAGACAGAGTTGGGAAAACCTTCTCTTTCAGAGGTGGATTCACATCCCCTATC
 CTCGCTTGCTACCCAACAGCTGTTAATTGGAATGCCTACGCCACCACCATCAAACCATTCCAGTACAG
 AAAAACACTTTCAGGGGATTTATTTCCAGGGATGGGTTCAACTTCACAGAACTTTTTGAAAATGCAGGAA
 ACCTTACAGTCTGTCAAAAGGAGCTTGTCTGTCATTTAAGCTACAGAATGTTACAAAAGAAGAGAAATGA
 AGTATACGTTCTAGGAGCTTTACAGGATTACATGGCCGAAGGAGAAGAGAGTACTGGCAGGTCTGCACA
 ATGCTGAAGTGCAAAACTACTAATTTGACAACCTGTGGACGGCCAGTAGAAACTGCTTCTACAAGATTTG
 AAATGTTCTCCCTCAGTGGCACATTTGGAACAGAGTATGTTTTCTGAAGTGCTACTTACCGAAATTC
 TCTGTCCACTGGAAAATTTGAGGTGCTGAAAGATGGGCGTTTGGTAAACAAGAATGGATCATCTGGGCT
 ATACTAACAGTGTCACTCTTTGGGAGGTGTACACAAAGGACTCACTTTACAGCTCATGTGGACCAGCA
 ATTCAGCAATAACTTACCTGCTAATATTATTAATGATCATAGCTTTGCAAAATATTGTAATGTT
 A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213006 representing NM_078488
 Red=Cloning site Green=Tags(s)

MNENIDILETAIKQAAEQGARIIVTPEDALYGWKFTRVFPYLEDIPDPQVNWIPCQDPHRFGHTPVQA
 RLSCLAKDNSIYVLANLGDKKPCNSRDSTCPPNGYFQYNTNVVYNTGKLVARYHKYHLYSEPFQNVPEK
 PELVTFNTAFGRFGIFTCDIFFYDPGVTLVKDFHVDITLFPATWMMNVLPLLTAEFHSAWAMGMGNLL
 VANTHHVSLNMTGSGIYAPNGPKVYHYDMKTELKLLSEVDSHPLSSLAYPTAVNWNAYATTIKPFPVQ
 KNTFRGFI SRDGFNFTELFENAGNLTVQKELCCHLSYRMLQKEENEVYVLGAFTGLHGRRRRREYQVCT
 MLKCKTTNLTTCGRPVETASTRFEMFSLSGTFGTEYVFPEVLLTEIHLSPGKFEVLKDGRLVNKNGSSGP
 ILTVSLFGRWYTKDSL YSSCGTSNSAITYLLIFILLMIIALQNIIVML

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8104_c09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_078488

ORF Size: 1401 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_078488.2](#), [NP_511043.1](#)
RefSeq Size: 1976 bp

RefSeq ORF: 1404 bp

Locus ID: 8875

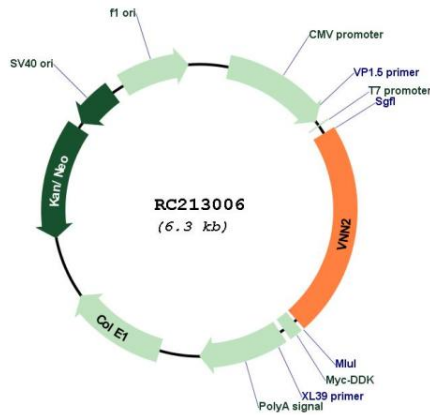
UniProt ID: [O95498](#)
Cytogenetics: 6q23.2

Protein Families: Druggable Genome, Transmembrane

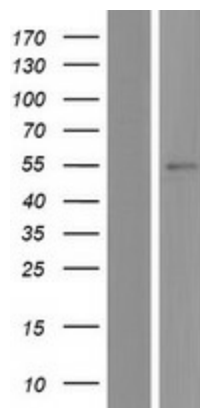
MW: 52.9 kDa

Gene Summary: This gene product is a member of the Vanin family of proteins that share extensive sequence similarity with each other, and also with biotinidase. The family includes secreted and membrane-associated proteins, a few of which have been reported to participate in hematopoietic cell trafficking. No biotinidase activity has been demonstrated for any of the vanin proteins, however, they possess pantetheinase activity, which may play a role in oxidative-stress response. The encoded protein is a GPI-anchored cell surface molecule that plays a role in transendothelial migration of neutrophils. This gene lies in close proximity to, and in same transcriptional orientation as two other vanin genes on chromosome 6q23-q24. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, May 2011]

Product images:



Circular map for RC213006



Western blot validation of overexpression lysate (Cat# [LY409194]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213006 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).