

## Product datasheet for **SC305777**

### VNN2 (NM\_078488) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VNN2 (NM_078488) Human Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >SC305777 representing NM\_078488.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAACGAGAATATAGACATTCTGGAGACAGCGATCAAGCAGGCAGCTGAGCAGGGTGCTCGAATCATT
GTGACTCCAGAAGATGCACTTTATGGATGGAAATTTACCAGGGAACTGTTTTCCCTTATCTGGAGGAT
ATCCCAGACCCTCAGGTGAAGTTCGGTGTCAAGACCCCAAGATTGGTCAACACACAGTACAA
GCAAGACTCAGCTGCCTGGCCAAGGACAACCTCTATCTATGTCTTGGCAAATTTGGGGACAAAAAGCCA
TGTAATCCCCTGACTCCACATGTCTCTAATGGCTACTTTCAATACAATACCAATGTGGTGTATAAT
ACAGAAGGAAACTCGTGGCAGCTTACCATAAGTACCACCTGTACTCTGAGCCTCAGTTTAAATGTCCTT
GAAAAGCCGGAGTTGGTGAATTTCAACACCGCATTTGGAAGGTTTGGCATTTCACGTGCTTTGATATA
TTCTTCTATGATCCTGGTGTACCCTGGTGAAGATTTCCATGTGGACACCATACTGTTCCACAGCT
TGGATGAACGTTTTGCCCTTTTGACAGCTATTGAATTCATTGAGCTTGGCAATGGGAATGGGAGTT
AATCTTCTGTGGCCAACACACATCATGTGAGCCTAAATATGACAGGAAGTGGTATTTATGCACCAAAT
GGTCCCAAAGTGATCATTATGACATGAAGACAGAGTTGGGAAAACCTTCTCCTTTCAGAGGTGGATTCA
CATCCCTATCCTCGCTTGCCTACCCAACAGCTGTTAATTGGAATGCCTACGCCACCACCATCAAACCA
TTTCCAGTACAGAAAACACTTTTCAAGGGATTTATTTCCAGGGATGGGTTCAACTTCACAGAACTTTT
GAAAATGCAGGAAACCTTACAGTCTGTCAAAAGGAGCTTTGCTGTCAATTAAGCTACAGAATGTTACAA
AAAGAAGAGAATGAAGTATACGTTCTAGGAGCTTTTACAGGATTACATGGCCGAAGGAGAAGAGAGTAC
TGGCAGGTCTGCACAATGCTGAAGTGCAAACTACTAATTTGACAACCTTGGACGGCCAGTAGAACT
GCTTCTACAAGATTTGAAATGTTCTCCCTCAGTGGCACATTTGGAACAGAGTATGTTTTCTGAAGTG
CTACTTACCGAAATTCATCTGTACCTGGAAAATTTGAGGTGCTGAAAGATGGGCGTTTGGTAAACAAG
AATGGATCATCTGGGCTTATACTAACAGTGTCACTCTTTGGGAGGTGGTACACAAGGACTCACTTTAC
AGCTCATGTGGGACCAGCAATTCAGCAATAACTTACCTGCTAATATTCATATTATTAATGATCATAGCT
TTGCAAAATATTGTAATGTTATAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_078488

**Insert Size:** 1404 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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](#)

**RefSeq Size:** 1961 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]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream codon, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.