

## Product datasheet for **SC303515**

### VNN2 (NM\_004665) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VNN2 (NM_004665) Human Untagged Clone
Tag:	Tag Free
Symbol:	VNN2
Synonyms:	FOAP-4; GPI-80
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_004665 edited  
 ATGGTCACTTCCTCTTTTCCAATCTCTGTGGCAGTTTTTGGCCCTAATAACCCTGCAGGTT  
 GGTACTCAGGACAGTTTTATAGCTGCAGTGTATGAACATGCTGTCATTTTGCCAAATAAA  
 ACAGAAACACCAGTTTTCTCAGGAGGATGCCTTGAATCTCATGAACGAGAATATAGACATT  
 CTGGAGACAGCGATCAAGCAGGCAGCTGAGCAGGGTCTCGAATCATTGTGACTCCAGAA  
 GATGCATTTATGGATGGAATTTACCAGGGAACTGTTTTCCCTTATCTGGAGGATATC  
 CCAGACCTCAGGTGAAGTGGATCCCGTGTCAAGACCCCCACAGATTTGGTCACACACCA  
 GTACAAGCAAGACTCAGCTGCCTGGCCAAGGACAACCTCTATCTATGTCTTGGCAAATTTG  
 GGGGACAAAAAGCCATGTAATTCCTGACTCCACATGTCCTCCTAATGGCTACTTTCAA  
 TACAATACCAATGTGGTGTATAATACAGAAGGAAAACCTGTCGACGTTACCATAAGTAC  
 CACCTGTACTCTGAGCCTCAGTTAATGTCCCTGAAAAGCCGAGTTGGTGACTTTCAAC  
 ACCGCATTTGGAAGTTTGGCATTTCACGTGCTTTGATATATTCTTCTATGATCCTGGT  
 GTTACCCTGGTGAAGATTTCCATGTGGACACCATACTGTTTCCACAGCTTGGATGAAC  
 GTTTTGCCCTTTGACAGCTATTGAATCCATTACAGCTTGGGCAATGGGAATGGGAGTT  
 AATCTTCTGTGGCCAACACATCATGTCAGCCTAAATATGACAGGAAGTGGTATTTAT  
 GCACCAATGGTCCCAAAGTGTATCATTATGACATGAAGACAGAGTTGGGAAAACCTCTC  
 CTTTCAGAGGTGGATTACATCCCCTATCCTCGCTTGCCTACCCAACAGCTGTTAATTGG  
 AATGCCTACGCCACCACCATCAAACATTTCCAGTACAGAAAAACACTTTTCAAGGGGATTT  
 ATTTCCAGGGATGGGTTCAACTTCACAGAACTTTTAAAATGCAGGAAACCTTACAGTC  
 TGTCAAAGGAGCTTTGCTGTCATTTAAGCTACAGAATGTTACAAAAAGAAGAGAATGAA  
 GTATACGTTCTAGGAGCTTTACAGGATTACATGGCCGAAGGAGAAGAGAGTACTGGCAG  
 GTCTGCACAATGCTGAAGTGCAAACTACTAATTTGACAACTTGTGGACGGCCAGTAGAA  
 ACTGCTTCTACAAGATTTGAAATGTTTCCCTCAGTGGCACATTTGGAACAGAGTATGTT  
 TTTCTGAAGTGCTACTTACCGAAATTCATCTGTACCTGGAAAAATTTGAGGTGCTGAAA  
 GATGGGCGTTTGGTAAACAAGAATGGATCATCTGGGCCTATACTAACAGTGTCACTCTTT  
 GGGAGGTGGTACAAAAGGACTCACTTTACAGCTCATGTGGGACCAGCAATTCAGCAATA  
 ACTTACCTGCTAATTCATATTATTAATGATCATAGCTTTGCAAAATATTGTAATGTTA  
 TAG

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_004665 unedited  
 GGGTTTGGGGGGTTCCACATTTGGATACGACTCACTATAGGGCGGCCGGATTGAGATC  
 TGGTACCAGACTCGGGTCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCGCTTTATG  
 CAAACATTTCTCCCTCTGTAAATACTACATGAATGTTATTTTGTCTTTCAGAAATCACTA  
 AACCTTGGCCATGGTCACTTCTCTTTTCCAATCTCTGTGGCAGTTTTTGGCCCTAATAAC  
 CCTGCAGGTTGGTACTCAGGACAGTTTTATAGCTGCAGTGTATGAACATGCTGTCATTTT  
 GCCAAATAAAACAGAAACACCAGTTTTCTCAGGAGGATGCCTTGAATCTCATGAACGAGAA  
 TATAGACATTTGGAGACAGCGATCAAGCAGGCAGCTGAGCAGGGTCTCGAATCATTGT  
 GACTCCAGAAGATGCATTTATGGATGGAAATTTACCAGGGAACTGTTTTCCCTTATCT  
 GGAGGATATCCCAGACCTCAGGTGAACTGGATTCCCGTGTCAAGACCCCCACAGATTTGG  
 TCACACACCAGTACAAGCAAGACTCAGCTGCCTGGCCCAAGACAACCTCTATCTATGTCTT  
 GGCAAATTTGGNGGACAAAAAGCCATGTAATTCCTGACTCCACATGTCCTCCTAATGG  
 CTACTTTCAATAACAACCAATGTGGTGTATACAGAAGGAAAACCTGTCGACGTTACCAT  
 AGTACACCTGTACTCTGAGCCTCAGTTTATGTCCCTGAAAAGCCGAGTTGGTGACTTTCA  
 CCACCATTTGGAGGTTTGCATTTTCCGTGCTGGATAATTTCTCAATGACCCGGTGT  
 ACCTGTGGAAATTTCTTTGGCACCTACTGTTCCACGCTTGGT

**Restriction Sites:** Please inquire  
**ACCN:** NM\_004665  
**Insert Size:** 1700 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_004665.2</a> , <a href="#">NP_004656.2</a>
<b>RefSeq Size:</b>	2034 bp
<b>RefSeq ORF:</b>	1563 bp
<b>Locus ID:</b>	8875
<b>UniProt ID:</b>	<a href="#">O95498</a>
<b>Cytogenetics:</b>	6q23.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane

**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 (1) represents the longest transcript and encodes the longest isoform (1).