

## Product datasheet for **SC332592**

### VAV1 (NM\_001258207) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VAV1 (NM_001258207) Human Untagged Clone
Tag:	Tag Free
Symbol:	VAV1
Synonyms:	VAV
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC332592 representing NM\_001258207.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGAGCTGTGGCGCAATGCACCCACTGGCTCATCCAGTGCCGGGTGCTGCCGCCAGCCACCGGTG
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TGCGTGGAGAATGAGGAGGCGGAAGGCGACGAGATCTATGAGGACCTCATGCGCTCGGAGCCCGTGTCC
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GAGGAAGATTATCTGAATACTGCTGA
  
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**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001258207

**Insert Size:** 2442 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).

<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_001258207.1</a>
<b>RefSeq Size:</b>	2848 bp
<b>RefSeq ORF:</b>	2442 bp
<b>Locus ID:</b>	7409
<b>UniProt ID:</b>	<a href="#">P15498</a>
<b>Cytogenetics:</b>	19p13.3
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	B cell receptor signaling pathway, Chemokine signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity, Regulation of actin cytoskeleton, T cell receptor signaling pathway
<b>MW:</b>	94.5 kDa
<b>Gene Summary:</b>	<p>This gene is a member of the VAV gene family. The VAV proteins are guanine nucleotide exchange factors (GEFs) for Rho family GTPases that activate pathways leading to actin cytoskeletal rearrangements and transcriptional alterations. The encoded protein is important in hematopoiesis, playing a role in T-cell and B-cell development and activation. The encoded protein has been identified as the specific binding partner of Nef proteins from HIV-1. Coexpression and binding of these partners initiates profound morphological changes, cytoskeletal rearrangements and the JNK/SAPK signaling cascade, leading to increased levels of viral transcription and replication. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Apr 2012]</p> <p>Transcript Variant: This variant (3) lacks an exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.</p>