

Product datasheet for **SC116335**

VAV3 (NM_006113) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VAV3 (NM_006113) Human Untagged Clone
Tag:	Tag Free
Symbol:	VAV3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_006113 edited
ATGGAGCCGTGGAAGCAGTGC GCGCAGTGGCTCATCCATTGCAAGGTGCTGCCACCAAC
CACCGGTGACCTGGGACTCGGCTCAGGTGTTGACCTTGCGCAGACCCTCCGCGATGGA
GTCCTGCTCTGCCAGTCTTAAACAACCTCCGGGCGCACTCCATCAACCTGAAGGAGATC
AACCTGAGGCCGAGATGCCCAGTTTCTCTGTTTGAAGAACATAAGGACATTTCTCACG
GCCTGTTGTGAGACGTTTGGAAAGTTATAGAAACATTATCAGCACTTCTCGAACACTATA
GCATTGGCCACAGGAATCAGGCCCTTCCCAACAGAAGAAAGCATTAAATGATGAAGACATC
TACAAAGGCCCTTCTGATTTAATAGATGAAACCCTTGTGGAAGATGAAGAAGATCTCTAT
GACTGTGTTTATGGGGAAGATGAAGGTGGAGAAGTCTATGAGGACTTAATGAAGGCAGAG
GAAGCACATCAGCCCAAATGTCCAGAAAATGATATACGAAGTTGTTGTCTAGCAGAAAT
AAGCAGACAGAAGAAAAATACAGAACTTTGGAGTCAATAGAAAAGTATTTTCATGGCA
CCACTAAAAGATTTCTGACAGCAGCAGAATTTGATTTCAGTATTCATCAACATTCCTGAA
CTTGTA AAACTTCATCGAACCTAATGCAAGAGATTCATGATTCCATTGTAATAAAAAAT
GACCAGAACTTGTACCAAGTTTTTATTA ACTACAAGGAAAGATTGTTATTTACGGGCAG
TACTGCAGTGGAGTGGAGTCAGCCATCTCTAGTTTAGACTACATTTCTAAGACAAAAGAA
GATGTCAAACCTGAAATTAGAGGAATGTTCCAAAAGAGCAAATAATGGGAAATTTACTCTT
CGAGACTTGCTTGTTGTTTCTATGCAACGTGTTTTAAAGTACCACCTTCTCCTCCAGGAA
CTGGTCAAACATACCACTGATCCGACTGAGAAGGCAAATCTGAAACTGGCTCTTGATGCC
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CCTCAGGGAGATGGTGAATTCGAATAACCACTCTAGACAAGCATAACAAACAAGAAAGG
CATATCTTTATTTGATTTGGCAGTGCATGTAAGAGAAAAGGTGATAACTATGAA
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TTCACTCGAGTCACATCTGCAAAGTCTGCCAGATGCTCCTGAGGGGAACATTTTATCAA
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AATTGTGGCAGAGTTAATCTGGTGAACAAGGGACTCAAACCTACCAGAGAAACGGACC
AATGGACTGCGAAGAACTCCTAAACAGGTGGATCCAGGTTTACCAAAGATGCAGGTCATT
AGGAACTATTCTGGAACACCACCCAGCTCTGCATGAAGGACCCTTTTACACCTCCAG
GCCGGGATACCGTTGAACTTCTGAAAGGAGATGCACACAGTCTGTTTTGGCAGGGCAGA
AATTTAGCATCTGGAGAGGTTGGATTTTTTCCAAGTGTGCAGTCAAGCCTTGCCCATGT
GTGCCCAAACAGTAGATTATTCTTGCCAAACCCTGGTATGCTGGAGCAATGGAAAGATTG
CAAGCAGAGACCGAACTTATTAATAGGGTAAATAGTACTTACCTTGTGAGGCACAGGACC
AAAGAGTCAGGAGAATATGCAATTAGCATTAAAGTACAATAATGAAGCAAAGCACATCAAG
ATTTTAAACAAGAGATGGCTTTTTTACATTGCAGAAAAAGAAAAATTTAAAGTTTAAATG
GAACTTGTGGAGTACTACAAGCATCATTCTCAAGGAAGGGTTCAGAACCTTAGATACA
ACTCTGCAGTTTCCATACAAGGAGCCAGAACATTAGCTGGACAGAGGGTAAATAGAGCA
GGCAACAGCTTGTAAAGTCCAAAAGTGGTGGGATTGCCATCGCTCGGTATGACTTCTGT
GCAAGAGATATGAGAGAGTTGCTCTGTTGAAAGGAGATGTGGTGAAGATTTACACAAAG
ATGAGTGCAAATGGCTGGTGGAGAGGAGAAGTAAATGGCAGGGTGGGCTGGTTTCCATCC
ACATATGTGGAAGAGGATGAATAA
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006113 unedited</p> <p>CACCCATTCCGCACGAGGGCGGCAGCCGCCGCGAGCCGGCCGGGGCGCACGGAGAGCGC GCGGGACTCGCTGCAGCGGCGGCCGGTTCGCGCGCACCCGGGCCGGGACCGGAGCCGAG CCTAGCGCGGCCCGCGACCCGTACGCCGCGCTCCTGCTCCCTCGATCCCGCGCTGTT ATGGGCCGGCGGCTGTTGGCGTCGGCGGGCGCGGAGGAACCGCGCGCGCGCGCGCG GCCGCATCCTTGCCGCCCGCCCGGCCAGCCGCTCCCGGAGCCGTCCGGCATGGAGCC GTGGAAGCAGTGCAGCGCAGTGGCTCATCCATTGCAAGGTGCTGCCACCAACCACCGGT GACCTGGGACTCGGCTCAGGTGTCGACCTTTCGCGAGACCCTCCCGATGGAGTCTGCT CTGCCAGCTGCTTAACAACCTCCGGGCGCACTCCATCAACCTGAAGGAGATCAACCTGAG GCCGCAGATGTCCAGTTTCTCTGTTTGAAGAACATAAGGACATTTCTCACGGCCTGTTG TGAGACGTTTGAATGAGGAAAAGTGAACCTTTTCGAGGCATTTGACTTGTGTTGATGTTG TGACTTTGAAAGGTTATAGAAACATTATCAGACTTTCTCGAACACCTATAGCATTGGC CACAGGAATCAGGCCCTCCCAACAGAAGAAAGCATTAAATGATGAAGACATCTACAAAGG CCTTCCTGATTTAATAGATGAAACCCTTGTGGAAGATGAAGAAGATCTCTATGACTGTGT TTATGGGAAAGATGAAGTGGAGGAGTCTATGAGGACTTNNATGAGGCAGAGGAAGCACA TCAGCCANATGTNCCAGAAATGATATACGAAGTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006113 unedited</p> <p>CCGCGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTCAATTTAGTCACT ATTTATTATATTGACATATTTACAAAATAATACAAAGTAAATACCACTTAATTCACCG TATTACACGAGGGCTGCATACAGGCAAGACAAAGTATATGAAAAACATTTACTTCTGCT TTGGTATTAGAACTCTACACAAATCTGCAGCATTTAAATTTTCCAAAACAAAGTATTA CGTGGACAAAGATGTAATTGGTAATGTCACAAAAGGGGCTCCAATATCCTCTGCTAGGA AACCCCAAGGCCATGAAATGCAACAGGAAGACTAAACACCATTTATAAGGAGAGGGTCT ATTGACTAAAATAACAATACATGCTACAATACCATCCACAGGAGTGTCTGCTTGTGT GAGGCTGCTCCCTCCATAACAAAGTTTCGGCTGACGGCAACAGACAAAACATTCAGGAC AGAGTCGAGATAAGACTTTACAGGAAAGAAATCCATTCCAAGAGTACACTTTGAGGTGTA ACTTTATTGTACAGAACATTTTAAAAATACATNTTGTGATCATTTACACATATACAAA GACTTAAATGGTTTTAGCAAATATTATNTTCTAAACACAATCACAGTTTACATAATT CTGAGGTAAGGCTTTGATTCTATCCTAGATGAAAAGTCTACCCCATGAGGGTCTCTAC AGGGGATGTGTCCACTGACCCTGAGTTCTGCCCCANACCGATGATGACAGGGCAGCTA CACTGCTCATTTAGGATGATCAATTTCAAACAAAGCTCTGTTCAAGTCTACAAGTAAG CTTCTTTTTTCCAAACAGAACTTCTAATCTGCAGACAAACTTTGTTTGGAGGAAATCCAT CAGAAGCCANTAGGGTTACTGACTGCTGATGGGCTCTGACCCAGAGATGTTTAGCTCTC AAAAAAGAGGCTGC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_006113
Insert Size:	5000 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:	no
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:	<ol style="list-style-type: none">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:	<u>NM_006113.3, NP_006104.3</u>
RefSeq Size:	4768 bp
RefSeq ORF:	2544 bp
Locus ID:	10451
UniProt ID:	<u>Q9UKW4</u>
Cytogenetics:	1p13.3
Domains:	RhoGEF, SH2, SH3, CH, PH, DAG_PE-bind
Protein Families:	Druggable Genome
Protein Pathways:	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
Gene Summary:	<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. This gene product acts as a GEF preferentially for RhoG, RhoA, and to a lesser extent, RAC1, and it associates maximally with the nucleotide-free states of these GTPases. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1, also known as VAV-3alpha) encodes the longer isoform (1).</p>