OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC315719

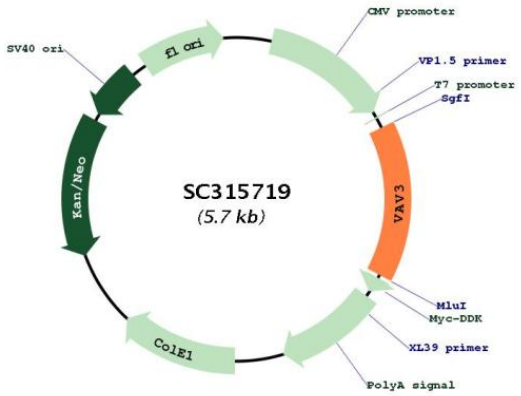
VAV3 (NM_001079874) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VAV3 (NM_001079874) Human Untagged Clone
Tag:	Tag Free
Symbol:	VAV3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315719 representing NM_001079874. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGCCAATTTTTACATTTCTTTCAGAACAAGGGACACTCAAACTACCAGAGAAACGGACCAATGGACTG CGAAGAACTCCTAAACAGGTGGATCCAGGTTTACCAAAGATGCAGGTCATTAGGAACTATTCTGGAACA CCACCCCCAGCTCTGCATGAAGGACCCCCTTTACAGCTCCAGGCCGGGGATACCGTTGAACTTCTGAAA GGAGATGCACACAGTCTGTTTTGGCAGGGCAGAAATTTAGCATCTGGAGAGGTTGGATTTTTTCCAAGT GATGCAGTCAAGCCTTGCCCATGTGTGCCCAAACCAGTAGATTATTCTTGCCAACCCTGGTATGCTGGA GCAATGGAAAGATTGCAAGCAGAGACCGAACTTATTAATAGGGTAAATAGTACTTACCTTGTGAGGCAC AGGACCAAAGAGTCAGGAGAATATGCAATTAGCATTAAGTACAATAATGAAGCAAAGCACATCAAGATT TTAACAAGAGATGGCTTTTTTCACATTGCAGAAAATAGAAAATTTAAAAGTTTAATGGAACTTGTGGAG TACTACAAGCATCATTCTCTCAAGGAAGGGTTCAGAACCTTAGATACAACTCTGCAGTTTCCATACAAG GAGCCAGAACATTCAGCTGGACAGAGGGGTAATAGAGCAGGCAACAGCTTGTTAAGTCCAAAAGTGCTG GGCATTGCCATCGCTCGGTATGACTTCTGTGCAAGAGATATGAGAGAGTTGTCCTTGTTGAAAGGAGAT GTGGTGAAGATTTACACAAAGATGAGTGCAAATGGCTGGTGGAGAGGAGAAGTAAATGGCAGGGTGGGC TGGTTTCCATCCACATATGTGGAAGAGGATGAATAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

View online »

Plasmid Map:



ACCN:	NM_001079874
Insert Size:	864 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_001079874.1
RefSeq Size:	3115 bp

RefSeq ORF:	864 bp
Locus ID:	10451
UniProt ID:	Q9UKW4
Cytogenetics:	1p13.3
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
MW:	32.6 kDa

Gene Summary: 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]
Transcript Variant: This variant (2, also known as vav3.1) contains a novel 5' exon, and is missing most of the exons found in the 5' half of variant 1. This is a shorter isoform, and consists mostly of the C-terminal SH3-SH2-SH3 region.