

Product datasheet for **RG218352**

VAV3 (NM_001079874) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VAV3 (NM_001079874) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VAV3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218352 representing NM_001079874 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAATTTTTACATTTCTTTTCAGAACAAGGGACACTCAAACCTACCAGAGAAACGGACCAATGGACTGC
GAAGAATCCTAAACAGGTGGATCCAGGTTTACCAAAGATGCAGGTCATTAGGAATTTCTGGAACACC
ACCCCAGCTCTGCATGAAGGACCCCTTTACAGCTCCAGGCCGGGGATACCGTTGAACTTCTGAAAGGA
GATGCACACAGTCTGTTTTGGCAGGGCAGAAATTTAGCATCTGGAGAGGTTGGATTTTTTCCAAGTGATG
CAGTCAAGCCTTGCCCATGTGTGCCAAACCAGTAGATTATTCTTGCCAACCCTGGTATGCTGGAGCAAT
GGAAAGATTGCAAGCAGAGACCGAACTTATTAATAGGGTAAATAGTACTTACCTTGTGAGGCACAGGACC
AAAGAGTCAGGAGAATATGCAATTAGCATTAAGTACAATAATGAAGCAAAGCACATCAAGATTTTAAACAA
GAGATGGCTTTTTTACATTGCAGAAAATAGAAAATTTAAAAGTTTAAATGGAACCTGTGGAGTACTACAA
GCATCATTCTCTCAAGGAAGGGTTCAGAACCTTAGATACAACCTCTGCAGTTTCCATACAAGGAGCCAGAA
CATTTCAGCTGGACAGAGGGTAAATAGAGCAGGCAACAGCTTGTTAAGTCCAAAAGTGCTGGGCATTGCCA
TCGCTCGGTATGACTTCTGTGCAAGAGATATGAGAGAGTTGTCTTGTGAAAGGAGATGTGGTGAAGAT
TTACACAAAGATGAGTGCAAATGGCTGGTGGAGAGGAGAAGTAAATGGCAGGGTGGGCTGGTTTCCATCC
ACATATGTGGAAGAGGATGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218352 representing NM_001079874
 Red=Cloning site Green=Tags(s)

MPIFTFLSEQGTLKLEPKRTNGLRRTPKQVDPGLPKMQVIRNYSGTPPPALHEGPPLQLQAGDTEVLLKG
 DAHSLFWQGRNLASGEVGFPPSDAVKPCPCVPKPDYSCQPWYAGAMERLQAETELINRVNSTYLVRHRT
 KESGEYAI SIKYNNEAKHIKILTRDGFHIAENRKFKSLMELVEYKHHSLKEGFRTLD TTLQFPYKEPE
 HSAGQRGNRAGNSLLSPKVLGIAIARYDFCARDMRELSLLKGDVVKIYTKMSANGWWRGEVNGRVGWFP
 TYVEEDE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001079874

ORF Size: 861 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001079874.2](#)

RefSeq Size: 3115 bp

RefSeq ORF: 864 bp

Locus ID: 10451

UniProt ID: [Q9UKW4](#)

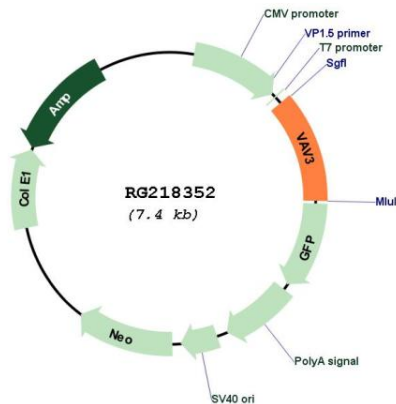
Cytogenetics: 1p13.3

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

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]

Product images:



Circular map for RG218352