

Product datasheet for **RG216175**

VAV2 (NM_003371) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VAV2 (NM_003371) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VAV2
Synonyms:	VAV-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216175 representing NM_003371
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCAGTGGCGGCAGTGC GGCCGCTGGCTCATCGATTGCAAGTCTGCCGCCAACACC GGGTGG
 TGTGGCCCTCGGCCGTGGTCTTCGACCTGGCGCAGGCGCTGCGCGACGGGGTCTTCTGTGCCAGCTGCT
 GCACAACCTCTCCCCGCTCCATCGACCTCAAGGACATCAACTTCCGGCCGAGATGTCCAGTTTCTG
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 GTGAGGATGGAGGGGACGACATCTACGAGGACATCATCAAGGTGGAGGTGCAGCAGCCCATGAAATGGG
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 ACCCTGGAGGACATTGAGAAGAACTACATGAGCCCTTCCGGCTGGTGTGAGCCCGGGCAGATGGCAG
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 GGGAGCTTTCGCTGCGGGAGGGTACGTTGGTGGAGTCTACAGCCGATCGGCGGAGACCAGGGCTGGT
 GAAGGGCGAGACCAACGGACGGATTGGCTGGTTTCTTCAACGTACGTAGAAGAGGAGGGCATCCAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216175 representing NM_003371
 Red=Cloning site Green=Tags(s)

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MEQWRQCGRWLDCKVLPPNHRVVWPSAVVFDLAQALRDGVLLCQLLHNLSPGSIDLKDINFRPQMSQFL
CLKNIRTFKLVCHDKFGLRNSELPFDLFDVDFGKVISAVSRLSLHSLAQNKGIRPFSEETTENDDD
VYRSLEELADEHDLGEDIYDCVPCEDGGDDIYEDIKVEVQPMKMGMTEDDKRNCCLLEIQETAKEYR
TLEDIEKNYMSPLRLVLSPADMAAVFINLEDLIKVHHSFLRAIDVSVMVGGSTLAKVFLDFKERLLIYGE
YCSHMEHAQNTLNQLLASREDFRQKVEECTLKVQDGKFKLQDLLVPMQVRVLKYHLLLKELLSHAERPE
RQQLKEALEAMQDLAMYINEVKRDKETLRKISEFQSSIENLQVKLEEFGRPKIDGELKVRISIVNHTKQDR
YLFLFDKVVIVCKRKGYSYELKEIIEELFHKMTDDPMNNKDVKKWSYGFYLIHLQKGQGFQFFCKTEDMK
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IKFNDEVKHIKVEKDNWIIHITEAKKFDSLELVEYYQCHSLKESFKQLDITLKYPKSRERSASRASSR
SPVFTPRVIGTAVARYNFAARDMRELSLREGDVVRIYSRIGGDQGWKGETNNGRIGWFPSTYVEEEGIQ
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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_003371.4](#)

RefSeq Size: 4707 bp

RefSeq ORF: 2520 bp

Locus ID: 7410

UniProt ID: [P52735](#)

Cytogenetics: 9q34.2

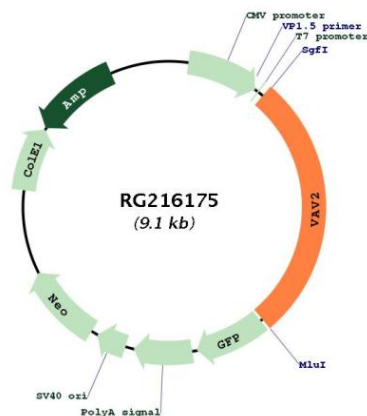
Domains: RhoGEF, SH2, SH3, CH, PH, DAG_PE-bind

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: VAV2 is the second member of the VAV guanine nucleotide exchange factor family of oncogenes. Unlike VAV1, which is expressed exclusively in hematopoietic cells, VAV2 transcripts were found in most tissues. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]

Product images:



Circular map for RG216175