

Product datasheet for **RC226230**

VAV2 (NM_001134398) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VAV2 (NM_001134398) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VAV2
Synonyms:	VAV-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC226230 representing NM_001134398
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCAGTGGCGGCAGTGCAGCCGCTGGCTCATCGATTGCAAGTCTGCCGCCAACACCAGGGTGG
 TGTGGCCCTCGGCCGTGGTCTTCGACCTGGCGCAGGCGCTGCGCGACGGGGTCTTCTGTGCCAGCTGCT
 GCACAACCTCTCCCCGCTCCATCGACCTCAAGGACATCAACTTCCGGCCGAGATGTCCAGTTTCTG
 TGTGTTGAAGAACATACGCACCTTCTGAAAGTCTGCCACGATAAAATTTGGATTAAGGAACAGCGAGCTGT
 TTGACCCCTTTGACCTCTTCGATGTGCGAGACTTTGAAAGGTCACTCCGCGGTGTCGAGGCTCTCCCT
 GCACAGCATCGCGCAGAACAAAGGGATCAGGCCTTTCCCTCAGAGGAGACCACAGAGAATGACGATGAC
 GTCTACCCGACCTGGAGGAGCTGGCCGACGAGCATGACCTGGGGGAGGACATCTACGACTGCGTCCCGT
 GTGAGGATGGAGGGGACGACATCTACGAGGACATCATCAAGGTGGAGGTGCAGCAGCCCATGATTAGATA
 CATGCAGAAAATGGGCATGACTGAAGATGACAAGAGAACTGCTGCCTGCTGGAGATCCAGGAGACCGAG
 GCCAAGTACTACCGCACCTGGAGGACATTGAGAAGAACTACATGAGCCCCTGCCGCTGGTGTGAGCC
 CGCGGCAGATGGCAGCTGTCTTCACTAAGCTGGAGGACCTGATCAAGGTGCATCACAGCTTCTGAGGGC
 CATCGACGTGTCCGTGATGGTGGGGGCAGCAGCTGGCCAAGGTCTTCTCGATTTCAAGGAAAGGCTT
 CTGATCTACGGGGAGTACTGCAGCCACATGGAGCACGCCCAGAACACACTGAACCAGCTCCTGGCCAGCC
 GGGAGGACTTCAGGCAGAAAAGTGCAGGAGTGCACACTGAAGGTCCAGGATGGAATAATTAAGCTGCAAGA
 CCTGCTGGTGGTCCCATGCAGAGGGTGTCAAATACCACCTGCTTGAAGGAGCTTCTGAGCCATTCT
 GCGGAACGGCCTGAGAGGCAGCAGCTCAAAGAAGCACTGGAAGCCATGCAGGACTTGGCGATGTACATCA
 ATGAAGTTAAACGGGACAAGGAGACCTTGAGGAAAATCAGCGAATTTAGAGTTCTATAGAAAATTTGCA
 AGTGAAGTGGAGGAATTTGGAAGACCAAAGATTGACGGGAACTGAAAGTCCGGTCCATAGTCAACCCAC
 ACCAAGCAGGACAGTACTTGTCTGTTGACAAGGTGGTTCATCGTCTGCAAGCGGAAGGGCTACAGCT
 ACGAGCTCAAGGAGATCATCGAGCTGCTGTTCCACAAGATGACCGACGACCCCATGAACAACAAGGACGT
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 CAGTTTTTCTGCAAAACAGAAGATGAAGAGGAAAGTGGATGGAGCAGTTTGAGATGGCCATGTCAAACA
 TCAAGCCAGACAAAGCCAATGCCAACACCACAGTTTCCAGATGTACACGTTTGACAAGACCACCAACTG
 CAAAGCCTGCAAAATGTTCTCAGGGGCACCTTCTACCAGGATACATGTGTACCAAGTGTGGCGTCCGG
 GCACACAAGGAGTGCCTGGAAGTATACCTCCCTGCAAGTTCACCTCTCCTGCAGATCTGGACGCCCTCCG
 GAGCGGGACCAGTCCCAAGATGGTGGCCATGCAGAAATACCATGGCAACCCAGCCCTCCCGGGGAGCC
 TGTGCTGACCTTCCAGACGGGCGACGTGCTTGAGCTGCTGAGGGGCGACCTGAGTCTCCGTGGTGGGAG
 GGTGCTGTTGTAACAACCAGGAAGTCAAGGTATTTCCCGAGCTCATCTGTGAAGCCCTGCCTGTGGATG
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 GAACGTTTCGGCCTCCAGGCCTCCAGCCGTCCCGAGCTTCTGTGCTTCTTACAACCTTTCTTTTCTCA
 GTCCTCAGGGCCTCAGCTTGTCTCAGGGCCCTCCGCTCCCTTCTGGTCAAGTGTTCACGCCCCGCGT
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 TTGGCTGGTTTCTTCAACGTACGTAGAAGAGGAGGGCATCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226230 representing NM_001134398
 Red=Cloning site Green=Tags(s)

MEQWRQCGRWLDCKVLPNHRVWPSAVVFDLAQALRDGVLLCQLLHNLSPGSIDLKIDNFRPQMSQFL
 CLKNIRTFKLVCHDKFGLRNSELFDFDLFDVRDFGKVISAVSRLSLHSIAQNKGIRPFSEETTDDDD
 VYRSLEELADEHDLGEDIYDCVPCEDGGDDIYEDIKVEVQQPMIRYMQKMGMTEDDKRNCCLLEIQETE
 AKYYRTLEDIEKNYMSPLRLVLPADMAAVFINLEDLIKVHHSFLRAIDVSVVMGGSTLAKVFLDFKERL
 LIYGEYCSHMEHAQNTLNQLLASREDFRQKVEECTLKVQDGKFKLQDLLVPMQRVLKYHLLLKELLSHS
 AERPERQQLKEALEAMQDLAMYINEVKRDKETLRKISEFQSSIENLQVKLEEFGRPKIDGELKVRISIVNH
 TKQDRYFLFDKVVIVCKRKGYSYELKEIEELLFHKMTDDPMNNKDVKKSHGKMWSYGFYLIHLQKQGF
 QFFCKTEDMKRWMEQFEMAMSNIKPKKANANHHSFQMYTFDKTTNCKACKMFLRGTFYQGYMCTKCGVG
 AHKECLEVIPPCKFTSPADLDASGAGPGPKMVAMQNYHGNPAPPKPVLPVTFQTDVLELLRDPESPWWE
 GRLVQTRKSGYFPSSSVKPCVDGRPPI SRPPSREIDYAYPWFAFNMERQOTDNLKSHASGYLIRER
 PAEERFAISIKFNDEVKHIKVVVEKDNWIHITEAKKFDSLLELVEYYQCHSLKESFKQLDITLKYPKSR
 ERSASRSPASCASYNFSLSPQGLSFASQGPSAPFWSVFTPRVIGTAVARYNFAARDMRELSLREG
 DVVRIYSRIGGDQGWKGETNGRIGWFPSTYVEEEGIQ

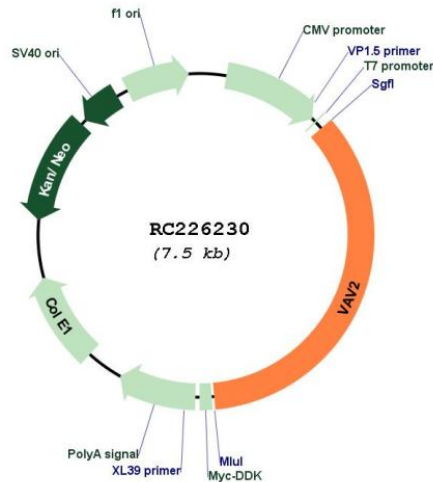
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001134398

ORF Size: 2634 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_001134398.2](#)

RefSeq ORF: 2637 bp

Locus ID: 7410

UniProt ID: [P52735](#)

Cytogenetics: 9q34.2

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: 101.1 kDa

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]