

Product datasheet for **MC222036**

Vav3 (NM_020505) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vav3 (NM_020505) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vav3
Synonyms:	A530094I06Rik; AA986410; Idd18.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222036 representing NM_020505
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCGTGGAAGCAGTGCCTCAGTGGCTCATCCACAGCAAGGTGCTGCCCCAACCATCGGGTGA
 CCTGGGACTCGGCGCAGGTGTTGACCTGGCGCAGACCCTTCGCGATGGAGTCTGCTCTGCCAGCTGCT
 CAACAACCTGCGGCCACACTCCATCAATCTGAAGGAGATCAACCTGAGGCCCCAGATGTCCAGTTTCTC
 TGTTTGAAGAACATCCGGACATTCTGGCCGCTGCTGCGATACCTTTGGAATGAGGAAAAGTGAACCTT
 TTGAGGCATTTGACCTATTTGATGTTGAGACTTTGAAAAGTTATAGAAACATTATCTCGGCTATCCCG
 AACACCAATAGCATTGGCCACAGGAATCAGGCCGTTCCCACTGAAGAAAGTATAAATGATGAAGACATC
 TACAAAGCCCTCCGACTTAATAGATGAAACCCGCTGGAAGATGAAGAAGACCTCTATGACTGTGTGT
 ACGGCGAGGATGAAGCGGAGAAGTCTATGAAGACTTGATGAAGCGGAGGAAGCCAGCAACCTAAATC
 ACAAGAAAATGATATACGGAGTTGTTGCCTAGCAGAAATTAGGCAGACAGAAGAAAATACACAGAAACG
 TTGGAGTCAATAGAAAAATATTTTCATGGCAACCATTGAAAAGATTTCTGACGGCGCGGAATTTGATTCA
 TATTTATTAACATTCTGACCTTGTAAAAGTTCATCGGAGCTTAATGCAAGAGATTTCATGATCCATTGT
 AAATAAGATGACCAGAACTTGTATCAAGTTTTTATTAACACAAGGAAAGATTGGTTATTTATGGGCAG
 TACTGCAGTGGAGTGGAGTCAAGCCTCTAACCCTAGACTACATCTCTAAGACAAAAGAAGATGTCAAAC
 TGAAATTAGAGGAATGTTCAAAAAGAGCCAATAACGGGAAGTTTACTCTGCGCGATTGCTGGTCTGTTCC
 AATGCAGCGCTGCTGAAGTATCACCTCCTCCTCAGGAGCTGGTAAAACACACCCATGACCCTATGGAG
 AAGCGCAACCTGAAGCTGGCTCTGGATGCAATGAAGACTTGGCACAATATGTGAATGAATAAAAAGAG
 ATAATGAGACCTTCGTGAAATTAAGCAGTTTCAGCTATCTATAGAGAATTTGAACCAGCCAGTTTGTCT
 CTTTGGACGACCACAGGGAGACGGTGAATCCGAATAACCACTCTGGACAAGCATACAAAACAAGAAAGG
 CATATCTTCTATTTCGACTTGGCAGTGATTGTCTGTAAGGAAAGGCGATAACTACGAGATGAAGGAAA
 TAATAGATCTCCAGCAGTACAAGATAGCCAACAACCTACCCTGACAAAAGAGAATAAAAAGTGGTCTTA
 TGGCTTCTACCTCATCCATACCAAGGACAAAATGGGTTAGAATTTTATTGCAAAAACAAAAGATTTAAAG
 AAAAAATGGCTGGAACAGTTTGAATGGCTCTATCCAACATAAGGCCAGACTATGCAGACTCCAATTTCC
 ATGATTTCAAGATGCACACCTTCACTCGGGTGCATCCTGCAGGGTCTGCCAGATGCTCCTGAGGGGAAC
 ATTTTATCAAGGCTACTTATGTTTTAAGTGTGGAGCAAAAGCACATAAAGAATGTTTGGGAAGAGTAGAC
 AATTGTGGCAGAGTTAATCCGTTGAACAAGGGCCATTCAAACCACAGAGAAACGGACCAATGGACTTC
 GGAGAGCTCCAGACAGGTGGACCCAGGTTTGGCGAAGATGCAGGTTCATTAGGAACTACACTGGCACCCC
 GGCCCCAGGGCTTCATGAAGGACCACCATTGCATATCCAGGCAGGCGACACTGTTGAACTTCTGAGAGGA
 GATGCACACAGTGTGTTCTGGCAGGGACGAAACTTAGCTTCAGGAGAGGTTGGATTTTTCCCAAGTGATG
 CTGTCAAACCCTCTCCATGTGTACCTAAACCAGTAGATTATTCTTGCCAACCCTGGTATGCTGGCCCAAT
 GGAAAGATTGCAGGCAGAAACTGAACTTATTAACAGGGTGAATAGTACTTACCTTGAAGGCACAGGACC
 AAAGAATCTGGAGAATATGCAATTAGCATTAAAGTACAATAATGAAGCAAAACACATCAAGATTTTAAACA
 GAGATGGCTTTTTTACATTGCAGAAAAAGAAAATTTAAAAGCTTAATGGAACCTGTGGAGTACTACAA
 GCACCATTTCTCAAAGAAGGGTTCAGGACCTTAGATACAACGCTACAGTTTCCATAACAAGGAGCCAGAA
 CAGCCAGCTGGACAGAGGGTAATAGAACAGGCAACAGCTTGTGAGTCCCAAAGTACTGGGTATTGCCA
 TCGCTCGTACGACTTCTGTGCAAGAGATATGCGGGAGCTCTCCCTATTGAAAGGAGACATGGTGAAGAT
 TTACACGAAGATGAGTGCAATGGCTGGTGGAGAGGTGAAGTAAATGGCAGGGTGGGCTGGTTTCCATCC
 ACATATGTGGAAGAAGATGAAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_020505
Insert Size: 2544 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).
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:	NM_020505.2 , NP_065251.2
RefSeq Size:	5023 bp
RefSeq ORF:	2544 bp
Locus ID:	57257
UniProt ID:	Q9R0C8
Cytogenetics:	3 F3
Gene Summary:	Exchange factor for GTP-binding proteins RhoA, RhoG and, to a lesser extent, Rac1. Binds physically to the nucleotide-free states of those GTPases (By similarity). Plays an important role in angiogenesis. Its recruitment by phosphorylated EPHA2 is critical for EFNA1-induced RAC1 GTPase activation and vascular endothelial cell migration and assembly. May be important for integrin-mediated signaling, at least in some cell types. In osteoclasts, along with SYK tyrosine kinase, required for signaling through integrin alpha-v/beta-1 (ITAGV-ITGB1), a crucial event for osteoclast proper cytoskeleton organization and function. This signaling pathway involves RAC1, but not RHO, activation. Necessary for proper wound healing. In the course of wound healing, required for the phagocytotic cup formation preceding macrophage phagocytosis of apoptotic neutrophils. Responsible for integrin beta-2-mediated macrophage adhesion and, to a lesser extent, contributes to beta-3-mediated adhesion. Does not affect integrin beta-1-mediated adhesion.[UniProtKB/Swiss-Prot Function]