

Product datasheet for MC210125

Vav3 (NM_146139) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vav3 (NM_146139) Mouse Untagged Clone
Tag: Tag Free
Symbol: Vav3
Synonyms: A530094I06Rik; AA986410; Idd18.1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC210125 representing NM_146139
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCCAATTTTTACCTTTGTTTCAGAACAAGGGCCATTCAAACCACCAGAGAAACGGACCAATGGACTTC
 GGAGAGCTTCAGACAGGTGGACCCAGGTTTGCCGAAGATGCAGGTCATTAGGAACACTGGCACCCC
 GGCCCCAGGGCTTCATGAAGGACCACATTGCATATCCAGGCAGGCGACTGTTGAACTTCTGAGAGGA
 GATGCACACAGTGTGTTCTGGCAGGGACGAACTTAGCTTCAGGAGAGGTTGGATTTTTCCCAAGTGATG
 CTGTCAAACCCTCTCCATGTGTACCTAAACCAGTAGATTATTCTTGCCAACCCTGGTATGCTGGCCAAT
 GGAAAGATTGCAGGCAGAACTGAACTTATTAACAGGGTGAATAGTACTTACCTTGTAAGGCACAGGACC
 AAAGAATCTGGAGAATATGCAATTAGCATTAAAGTACAATAATGAAGCAAAACACATCAAGATTTTAA
 CAA GAGATGGCTTTTTTACATTGCAGAAAAAGAAAATTTAAAGCTTAATGGAAGTGTGGAGTACTACAA
 GCACCATCTCTCAAAGAAGGGTTCAGGACCTTAGATACAACGCTACAGTTTCCATACAAGGAGCCAGAA
 CAGCCAGCTGGACAGAGGGTAAATAGAACAGGCAACAGCTTGTGAGTCCCAAAGTACTGGGTATTGCCA
 TCGCTCGGTACGACTTCTGTGCAAGAGATATGCGGGAGCTCTCCCTATTGAAAGGAGACATGGTGAAGAT
 TTACACGAAGATGAGTGCAAAATGGCTGGTGGAGAGGTGAAGTAAATGGCAGGGTGGGCTGGTTTCCATCC
 ACATATGTGGAAGAAGATGAAT**A**A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_146139
Insert Size: 864 bp



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| 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: | <u>NM_146139.2</u> , <u>NP_666251.1</u> |
| RefSeq Size: | 3061 bp |
| RefSeq ORF: | 864 bp |
| Locus ID: | 57257 |
| UniProt ID: | <u>Q9R0C8</u> |
| 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] |