

Product datasheet for **MG226847**

Vav1 (NM_001163815) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Vav1 (NM_001163815) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Vav1 |
| Synonyms: | Vav; vav-T |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG226847 representing NM_001163815
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTCTGGCGACAGTGCACCCACTGGCTGATCCAGTGTGCGGTGCTGCCTCCAGCCACCGTGTGA
 CCTGGGAGGGGGCCAGGCCATTAATCTTCGCGAGGTTAACTTGCGGCCCAAGATGTCCAGTTCCTTTG
 TCTTAAGAACATTGAACTTCTGTCTACTTGTGTGAGAAGTTCGGCCTCAAGCGCAGTGAACCTTT
 GAGGCTTTTGACCTTTCGATGTGCAGGACTTTGGAAAGGTCATCTACACCCTGTCTGCTGTGCATGGA
 CACCCATTGCCAGAACAAGGAATCATGCCCTTCCCAACAGAGGACAGCGCTCTGAACGACGAAGATAT
 TTACAGTGGCCTTTCAGACCAGATTGATGACACCCGAGAGGAAGACGAGGACCTTTATGACTGCGTGAA
 AATGAGGAGGCAGAGGGGACGAGATCTACGAGGACCTAATGCGCTTGGAGTCGGTGCCTACGCCACCCA
 AGATGACAGAGTATGATAAGCGCTGCTGCTGCCTGCGGGAGATCCAGCAGACGGAGGAGAAGTATACAGA
 CACTGGGCTCCATCCAGCAGCACTTCAAGCCTCTGCAGCGATTCTTAAGCCTCAAGACATGGAG
 ACCATCTTTGTAACATTGAGGAGCTGTCTCTGTGCATACCCACTTCTTAAGGAACTGAAGGATGCC
 TGCTGGCCCGGAGCAACAACACTGTATCAGGTCTTCAAGTACAAGGAGAGGTTTCTGGTTTATGG
 CCGTTATTGCACTCAGGTGGAGTCAGCCAGCAAGCACTTGGATCAAGTGGCCACAGCAGGGGAGGATGTG
 CAGATGAAGCTGGAGGAATGTTCTCAAAGAGCTAACAATGGCCGATTACCCCTACGGGATCTGCTGATGG
 TACCTATGCAGCGGGTGTGAAGTACCCTCTTCTCCAGGAGCTAGTAAACACACACAGGATGCTAC
 AGAGAAGGAGAACCTGCGGTTGGCCCTGGACGCCATGAGGGACCTGGCACAGTGGTGAACGAGGTCAAG
 AGGGACAATGAAACCTACGGCAGATCACAACCTTTCAGCTGTCCATTGAGAACCTGGACCAGTCTCTGG
 CTAACATGGCCCGGCCAAGATTGACGGTGAAGTCAAGATTACCTCAGTGGAGCGTCGCTCAAAGACAG
 CAGGTATGCCTTCTGCTGGACAAAGCACTGCTCATCTGTAAACGCCGCGGGGACTCTTACGACCTCAAA
 GCCTCGGTGAACCTGCACAGCTTCCAAGTTCGAGATGACTCCTCCGGGGAGCGAGACAACAAGAAGTGA
 GCCATATGTTCTCTGATTGAGGATCAAGGCGCCAGGGCTATGAGCTGTTCTCAAGACTCGGGAGCT
 GAAGAAGAAGTGGATGGAACAGTTCGAAATGGCCATCTCCAACATTTACCCAGAGAATGCTACAGCCAAT
 GGGCATGATTTTCAGATGTTCTCTTTGAGGAGACCCTTCTGCAAGGCCTGCCAGATGTTACTCAGAG
 GCACATTCTACCAGGGATATCGTGTACAGGTGCCGGCACCTGCACACAAGGAGTGTCTGGGAGAGT
 GCCTCCCTGTGGTCGCCATGGGCAAGATTCGCAGGAACCATGAAGAAGGACAAGCTCCATCGAAGGGCC
 CAGGACAAGAAAAGGAATGAATGGGTCTGCCTAAGATGGAAGTGTTCAGGAATACTATGGGATCCCTC
 CTCCACCTGGAGCCTTTGGGCCATTTTTACGGCTCAACCCTGGGGACATTGTGGAGCTCACTAAGGCAGA
 GGCTGAGCACAACCTGGTGGGAGGGAAGGAATACTGCTACAAATGAAGTCGGCTGGTTTCCCTGTAACAGA
 GTGCATCCCTATGTCCACGGCCCTCCTCAGGACCTGTCTGTGCATCTCTGGTATGCGGGCCCTATGGAAC
 GAGCAGGCGCTGAGGGCATCCTCACAACCGTTCTGATGGGACCTATCTGGTGGCGCAGAGGGTGAAGA
 TACAGCGGAGTTCGCCATCAGCATTAAAGTATAACGTGGAGGTCAAGCATATTAATAATCATGACGTCAGAG
 GGGTTGTACCGGATCACAGAGAAGAAGGCTTTCCGGGGCCTTCTGGAACCTGGTAGAGTTTATCAGCAGA
 ATCCCTCAAAGATTGCTTCAAGTCGTTGGACACCACCTTGCAGTTTCTTATAAGGAACCTGAGAGGAG
 AGCCATCAGCAAGCCACCAGCTGGAAGCACCAAGTATTTTGGCACTGCCAAGCCCGCTACGACTTCTGT
 GCCCGGACAGGTCGGAAGTGTCCCTTAAGGAGGGTATATCATCAAGATCCTCAATAAGAAGGGACAGC
 AAGGCTGGTGGCTGGGAGATCTACGGCCGGATCGGCTGGTTCCCTTAACTATGTGGAGGAAGACTA
 TTCCAATATTGC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226847 representing NM_001163815
 Red=Cloning site Green=Tags(s)

MELWRQCTHWLIQCRVLPSPHRVTWEGAQAINLREVNLRPQMSQFLCLKNIRTFLLSTCCEKFGLKRSELF
 EAFDLFDVQDFGKVIYTLALSWSPTIAQNKGIMPFPTEDSALNDEDIYSGLSAQIDDAEDEDLYDCVE
 NEEAEGDEIYEDLMRLESVPTPPKMTEYDKRCCCLREIQQTEEKYDTLGSIQHFMKPLQRFLKPKQDME
 TIFVNIIEELFSVHTHFLKELKDALAGPGATTLYQVFIKYKERFLVYGRYCSQVESASKHLDQVATAREDV
 QMKLEECQRANNGRFTLRDLLMVPQVRVLYHLLLQELVKHTQDATEKENLRALDAMRDLAQCVNEVK
 RDNETLRQITNFQLSIENLDQSLANYGRPKIDGELKITSVERRSKTDRYAFLLDKALLICKRRGDSYDLK
 ASVNLHSFQVRDSSGERDNKKWSHMFLLIEDQGAQGYELFFKTRELKKKWMEQFEMAIISNIYPENATAN
 GHDFQMFSEETTSCACQMLLRGTFYQGYRCYRCRAPAHKECLGRVPPCGRHGQDFAGTMKKDKLHRRRA
 QDKKRNELGLPKMEVFQEYYGIPPPGAFGPFLRLNPGDVELTKAEAEHNWWEGRNTATNEVGWFPENR
 VHPYVHGPPQDL SVHLWYAGPMERAGAEGILTNRSDGTYLVRQVRKDTAEFAISIKYNVEVKHIKIMTSE
 GLYRITEKKAFRGELLEVEFYQQNSLKDCFKSLDTTLQFPYKEPERRAISKPPAGSTKYFGTAKARYDFC
 ARDRSELSLKEGDIKILNKKGGQGWWRGEIYGRIGWFPSNYVEEDYSEYC

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001163815

ORF Size: 2463 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_001163815.1](#), [NP_001157287.1](#)

RefSeq Size: 4096 bp

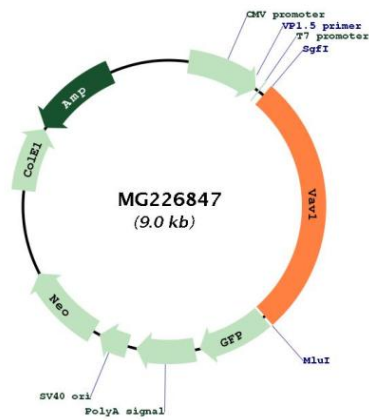
RefSeq ORF: 2466 bp

Locus ID: 22324

Cytogenetics: 17 29.76 cM

Gene Summary: Couples tyrosine kinase signals with the activation of the Rho/Rac GTPases, thus leading to cell differentiation and/or proliferation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226847