

## Product datasheet for **MC222260**

### Vav2 (NM\_009500) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vav2 (NM_009500) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vav2
Synonyms:	2810040F13Rik; AI847175; Vav-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222260 representing NM\_009500  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGCAGTGGCGGCAATGCGGCCGCTGGCTCATCGACTGCAAGTCTGCCGCCAACACCACCGCTCG  
 TGTGGCCCTCGGCGGTGGTCTTCGACCTGGCGCAGGCGCTGCGCGACGGGTCTTCTGTGCCAGCTGCT  
 GCACAACCTCTCCCCGGTTCCATCGACCTTAAGGACATCAACTTCCGGCCGAGATGTCCAGTCTTG  
 TGTCTGAAGAATATTCGCACCTTCTCAAAGTCTGCCATGACAAATTTGGACTAAGAAACAGTGAGCTGT  
 TTGACCTTTTCGACCTCTTTGATGTCCGAGACTTCGGGAAGGTCACTCTGCAGTGTCCCGTCTGCCCT  
 GCACAGCATCGCACAGAGCAAAGGGATCAGGCCATTTCCATCAGAGGAGACAGCTGAAAATGATGACGAC  
 GTCTACCGGAGCCTGGAAGAGCTGGCTGACGAGCATGACCTGGGTGAGGACATCTACGACTGTGCCGT  
 GTGAAGATGAAGGAGATGACATTTATGAGGACATCATCAAGGTGGAGGTGCAGCAGCCCATGAAAATGGG  
 CATGACTGAGGACGACAAGAGAAGCTGCTGTTGTTAGAGATTCAGGAGACCGAGGCCAAGTACTACCGC  
 ACCCTGGAGGACATTGAGAAGAAGTACATGGGTCCCTTGGCGTGGTGTGAGCCCGGCGGATATGGCTG  
 CTGCTTTCATCAACCTGGAGGACCTCATCAAGGTGCATCAGCTTTCTGCGAGCCATCGATGTGCCAT  
 GATGGCTGGTGGCAGTACCCTGGCTAAGGTCTTTCTGGAGTTAAGGAAAGGCTCCTGATCTATGGAGAG  
 TACTGTAGCCACATGGAACACGCTCAGAGTACACTGAACCAGCTCCTCGCCAGCCGAGAGGACTTCAGGC  
 AGAAAGTGGAGGAGTGCACACTCAGGGTTCAGGATGGCAAGTTCAGCTGCAAGACCTGTGGTGGTGCC  
 CATGCAACGGGTGCTGAAGTACCACCTGCTGCTCAAGGAGCTCCTGAGCCATTCTGCAGACCGACCAGAA  
 AGACAACAGCTCAAAGAAGCCCTGGAAGCCATGCAGGACTTGGCCATGTACATCAATGAAGTGAAGCGGG  
 ACAAGGAGACCTTGAAGAAGATTAGCGAGTTCAGTGTCCATAGAAAACCTGCAAGTGAAGTGGAGAG  
 ATTTGGGAGGCCAAAGATTGACGGGGAGCTTAAAGTCCGGTCCATAGTCAACCACACCAAGCAAGACAGG  
 TACCTGTTCTATTTGACAAGGTGGTCACTCGTGTGCAAGAGGAAGGGCTACAGCTATGAGCTGAAGGAGG  
 TCATTGAGCTGCTTCCACAAGATGACCGATGACCCGATGCACAACAAGGACATCAAGAAGTGGTCCATA  
 TGGCTTACCTGATTACCTCCAAGGAAAGCAAGGCTTTTCAGTCTTCTGCAAGACGGAAGACATGAAG  
 CGGAAGTGGATGGAGCAGTTCGAGATGGCCATGTCAAACATCAAGCCAGATAAGGCCAATGCCAACCATC  
 ATAGCTTCCAGATGTACACATTCGACAAGACTACCAACTGCAAAGCCTGCAAGATGTTTCTCAGGGGTAC  
 CTTCTACCAGGGATACCTGTGTACCAGATGTGGCGTGGGGCACACAAGGAATGCCTGGAGGTGATCCCC  
 CCCTGCAAGATGAGTTCACCTGCAGATGTGGATGCTCCTGGAGCAGGACCAGGTCCCAAGATGGTTGCTG  
 TGCAAGATACCATGGTAACCCAGCCCCTCCTGGGAAGCCTGTGTTGACCTTCCAGACAGGAGACGTGAT  
 AGAACTGCTCCGGGGTGACCCCGATTCTCCTTGGTGGGAAGGGCGGCTGGTTCAAACCAGGAAGTCAAGG  
 TATTTTCCAGCTCATCTGTGAAGCCCTGCCAGTGGATGGAAGGCCCGCTACTGGCCGCCACCATCCC  
 GGGAGATCGATTACACTGCCTACCCGTGGTTTGTGGCAACATGGAACGGCAGCAGACGGACAATCTGCT  
 CAAGTCTCATGCCAGTGGGACCTACCTCATCAGAGAGCGTCCAGCAGAGGAGCAGACGCTTCGCCATCAGC  
 ATCAAGTTCATGATGAGGTGAAACATATCAAGGTGGTGGAGAAAGATAGCTGGATCCACATCACGGAAG  
 CTAAGAAGTTTGAGAGCCTCCTGGAGCTGGTGGAGTACTACCAGTGTCACTCAAGGAAAGCTTCAA  
 GCAGTTGGACACTACACTCAAGTTCCTTCAAGTCTCGGGAGCGAACCACCAGCAGGGCCCTCAAGCCGG  
 TCTCCAGCTTCTGCGCTTCTACAACCTTTCTTTTCTCAGTCCCTCAGGGCCTCAGCTTTGCCCCAGG  
 CCCCTTCTGCTCCCTTCTGGTCAAGTGTTCACACCGCGGTCATCGGCACAGCCGTGGCCAGGTACA  
 ACTTGTCTGCTCGAGACATGCGGGAGCTGTCACTGCGAGAAGGTGATGTGGTGAAGATCTACAGCCGAATTGGT  
 GGGGACCAGGGCTGGTGGAAAGGAGAGACAAATGGGCGGATCGGTTGGTTTCTTCGACGTACGTGGAAG  
 AGGAAGGCGTCCAGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_009500  
**Insert Size:** 2607 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009500.2</a> , <a href="#">NP_033526.1</a>
<b>RefSeq Size:</b>	5812 bp
<b>RefSeq ORF:</b>	2607 bp
<b>Locus ID:</b>	22325
<b>UniProt ID:</b>	<a href="#">Q60992</a>
<b>Cytogenetics:</b>	2 19.36 cM
<b>Gene Summary:</b>	<p>This gene encodes a member of the Vav family of Rho guanine nucleotide exchange factors. Vav family proteins are involved in the development and activation of lymphocytes, and the encoded protein may also be involved in angiogenesis. Disruption of this gene in mice is associated with heart, artery, and kidney defects, as well as tachycardia and hypertension. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the functional protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>