

Product datasheet for **MR210853**

Vav2 (BC053060) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vav2 (BC053060) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide
Sequence:

>MR210853 representing BC053060
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGCAGTGGCGGCAATGCGGCCGCTGGCTCATCGACTGCAAGTCTGCCGCCAACACCACCGCTCG
TGTGGCCCTCGGCGGTGGTCTTCGACCTGGCGCAGGCGCTGCGCGACGGGTCTTCTGTGCCAGCTGCT
GCACAACCTCTCCCCGGTTCCATCGACCTTAAGGACATCAACTTCGGCCGAGATGTCCAGGTCATC
TCTGCAGTGTCCCGTCTGTCCCTGCACAGCATCGCACAGAGCAAAGGGATCAGGCCATTTCCATCAGAGG
AGACAGCTGAAAATGATGACGACGTCTACCGAGCCTGGAAGAGCTGGCTGACGAGCATGACCTGGTGA
GGACATCTACGACTGTGCCGTGAAGATGAAGGAGATGACATTTATGAGGACATCATCAAGGTGGAG
GTGCAGCAGCCCATGATCAGATACATGCAGAAAATGGGCATGACTGAGGACGACAAGAGAAGCTGCTGCT
TGTTAGAGATTCAGGAGACCGAGGCCAAGTACTACCGCACCTGGAGGACATTGAGAAGAACTACATGGG
TCCCTTGGCGCTGGTGTGAGCCCGGCGGATATGGCTGCTGTCTTCATCAACCTGGAGGACCTCATCAAG
GTGCATCACAGCTTTCTGCGAGCCATCGATGTGTCCATGATGGCTGGTGGCAGTACCCTGGCTAAGGTCT
TTCTGGAGTTAAGGAAAGGCTCCTGATCTATGGAGAGTACTGTAGCCACATGGAACACGCTCAGAGTAC
ACTGAACCAGCTCCTCGCCAGCCGAGAGGACTTCAGGCAGAAAAGTGGAGGAGTGCACACTCAGGGTTCAG
GATGGCAAGTTCAAGCTGCAAGACCTGCTGGTGGTGCCCATGCAACGGGTGCTGAAGTACCACCTGCTGC
TCAAGGAGCTCCTGAGCCATTCTGCAGACCGACCAGAAAAGACAACAGCTCAAAGAAGCCCTGGAAGCCAT
GCAGGACTTGGCCATGTACATCAATGAAGTGAAGCGGGACAAGGAGACCTTGAAGAAGATTAGCGAGTTC
CAGTGTCCATAGAAAACCTGCAAGTGAAGCTGGAGGAATTTGGGAGGCCAAAGATTGACGGGGAGCTTA
AAGTCCGGTCCATAGTCAACCACCAAGCAAGACAGGTACCTGTTCTATTTGACAAGGTGTCATCGT
GTGCAAGAGGAAGGGCTACAGCTATGAGCTGAAGGAGGTCAATTGAGCTGCTCTCCACAAGATGACCGAT
GACCCGATGCACAACAAGGACATCAAGAAGTCTCATGGGAAGATGTGGTCTATGGCTTCTACCTGATTC
ACCTCAAAGGAAAGCAAGGCTTTTCAGTTCCTGCAAGACGGAAGACATGAAGCGGAAGTGGATGGAGCA
GTTGAGATGGCCATGTCAAACATCAAGCCAGATAAGGCCAATGCCAACCATCATAGCTTCCAGATGTAC
ACATTCGACAAGACTACCAACTGCAAAGCCTGCAAGATGTTTCTCAGGGGTACCTTCTACCAGGGATACC
TGTGTACCAGATGTGGCTCGGGGCACACAAGGAATGCCTGGAGGTGATCCCCCCTGCAAGATGAGTTC
ACCTGCAGATGTGGATGCTCCTGGAGCAGGACCAGGTCCCAAGATGGTTGCTGTGCAGAATTACCATGGT
AACCCAGCCCCTCCTGGGAAGCCTGTGTTGACCTTCCAGACAGGAGACGTGATAGAAGTCTCCGGGGTG
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GCCTACCCGTGGTTTGTGGCAACATGGAACGGCAGCAGACGGACAATCTGCTCAAGTCTCATGCCAGTG
GGACCTACCTCATCAGAGAGCGTCCAGCAGAGGCGAGAACGCTTCGCCATCAGCATCAAGTTCAATGATGA
GGTGAACATATCAAGGTGGTGGAGAAAGATAGCTGGATCCACATCACGGAAGCTAAGAAGTTTGGAGGC
CTCCTGAGCATTCTTTCAGCAATATTTGGGAGCCCTGCGCCTGAGGGAGAGGTTTTTGGGCACTGGCCA
TCCTAGCTGGCTTGGCTGGAGAGCTGGTGGAGTACTACCAAGTGTCACTCACTCAAGGAAAGCTTCAAGC
AGTTGGCACTACACTCAAGTTCCTTCAAGTCTCGGGAGCGAACACCAGCAGGGCCTCAAGCCGGT
TCCAGCTTCTGCGCTTCTACAACCTTTCTTTTCTCAGTCCAGGGCCTCAGCTTTGCCCCAGGCC
CCTTCTGCTCCCTTCTGGTCAGTGTTCACACCGGGTTCATCGGCACAGCCGTGGCCAGGTACAACCTTG
CTGCTCGAGACATGCGGGAGCTGTCACTGCGAGAAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210853 representing BC053060
Red=Cloning site Green=Tags(s)

MEQWRQCGRWLDCKVLPPNHRVWPSAVVFDLAQALRDGVLLCQLLHNLSPGSIDLKDINFRPQMSQVI
SAVSRLSLHSIAQSKGIRPFSEETAENDDDVYRSLEELADEHDLGEDIYDCVPCEDGDDIYEDIKVE
VQQPMIRYMQKMGMTEDDKRSCCLLEIQTEAKYYRTLEDIEKNYMGPLRLVLSPADMAAVFINLEDLIK
VHHSFLRAIDVSMAGGSTLAKVLEFKERLLIYGEYCSHMEHAQSTLNQLLASREDFRQKVEECTLRVQ
DGKFKLQDLLVVPQVRVLYHLLKELLSHSADRPERQQLKEALEAMQDLAMYINEVKRDKETLKKISEF
QCSIENLQVKLEEFGRPKIDGELKVRISVNHTKQDRYLFDFKVVIVCKRKGYSYELKEVIELLFHKMTD
DPMHNKDIKKSHGKMWSYGFYLIHLQGGKQGFQFFCKTEDMKRKWMEQFEMAMSNIKPKANANHHSFQMY
TFDKTTNCKACKMFLRGTFYQGYLCTRCGVGAHKECLEVIPPCKMSSPADVDAPGAGPGPKMVAVQNYHG
NPAPPGKPVLTFTQGDVIELLRGDPSPWWEGRVQTRKSGYFPSSSVKPCPVDGRPPTGRPPSREIDYT
AYPWFAGNMRQQTNDLLKSHASGTYLIRERPAAERFAISIKFNDEVKHIKVVVEKDSWIHITEAKKFES
LLSILSAIFGSPAPEGEVFEALAILAGLWRAGGVLPVSLTQGKLQAVGHYTVPLQVSGANHQGLKPV
SSFLRFLQLFFSQSSGPQLCPPGPFCSLLVSVHTAGHRHSRGVQLCCSRHAGAVTARR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: BC053060

ORF Size: 2487 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: [BC053060](#), [AAH53060](#)

RefSeq Size: 5113 bp

RefSeq ORF: 2489 bp

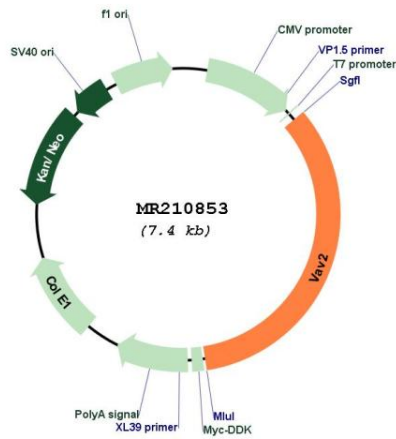
Locus ID: 22325

Cytogenetics: 2 19.36 cM

MW: 187.4 kDa

Gene Summary: 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]

Product images:



Circular map for MR210853