

Product datasheet for **RR212778**

Vav1 (NM_012759) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vav1 (NM_012759) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vav1
Synonyms:	Vav
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR212778 representing NM_012759
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCTCTGGCGACAGTGCACCCACTGGCTGATCCAGTGTGGGTGCTGCCTCCAGCCACCGTGTGA
 CCTGGGAGGGGGCCAGGTGTGTGAGCTGGCACAGGCACTGCGGGATGGTGTCTCCTGTGTCAACTGCT
 TAACAACCTGCTCCCCACGCCATCAATCTGCGGGAAGTTAACTTGTGGCCCCAGATGTCCAGTTCCTT
 TGTCTTAAGAACATCCGAACCTTCTGTCTACTTGTGTGAGAAAATCGGCCCTCAAGCGCAGCGAACTCT
 TTGAGGCTTTTGACCTCTTTGATGTGCAGGACTTTGAAAAGGTACCTACACCCTGTCTGCCCTGTCATG
 GACACCCATTGCCAGAACAAAGGGATCATGCCCTTCCAACAGAGGACAGCGCCTGGGTGATGAAGAT
 ATTTACAGTGGCCTTTCAGACCAGATTGATGACACCGCAGAGGAAGATGAGGACCTTTATGACTGCGTGG
 AGAATGAGGAGGCAGAGGGGACGAGATCTACGAGGACCTAATGCGCTCGGAGTCGGTCCACACCTCC
 CAAGATGACAGAGTACGATAAGCGCTGCTGCTGCCTGCGGGAGATCCAGCAGACTGAGGAGAAGTACACA
 GACACACTGGGCTCCATCCAGCAGCACTTCATGAAGCCCTCCAGCGATTCTCAAGCCTCAAGACATGG
 AGACCATCTTTGTCAACATTGAGGAGCTGCTCTGTGTCACCCACTTCTTAAAGGAACGAAGGATGC
 CCTGTCTGGCCCGGAGCAACGATGCTGTATCAGGTCTTCATCAAGTATAAGGAGAGGTTCTTGTTTAT
 GGCCGTTATTGCAGTCAGGTGGAGTCAGCCAGCAAGCACTTGGATCAAGTGGCCACAGCAGGGGAGGATG
 TGCAGATGAAGCTGGAGGAATGCTCTCAAAGAGCCAACAATGGCCGCTTACCCTGCGGGATCTGCTGAT
 GGTGCCTATGCAGCGGTGCTGAAGTATCACCTCCTCCTCCAGGAGCTAGTGAACACACACAGGATACT
 ACAGAAAAGGAGAACCTGCGGTTGGCCCTGGACGCCATGAGGGACCTGGCGCAGTGTGTGAATGAGGTCA
 AGAGGGACAATGAAACCTTACGGCAGATCACAACTTTCAGCTGTCCATTGAGAACCTGGACCAGTCTCT
 GGCCAACATAGGCCGGCCTAAGATTGACGGTGAGCTCAAGATTACCTCAGTGAACGGCGCTCCAAGACA
 GACAGGTATGCCTTCTGCTGGACAAAGCACTGCTCATCTGTAAGCGCCGCGGGACTCTTATGACCTCA
 AGGCCTCAGTGAACCTGCACAGCTTCCAAGTTCGGGATGACTCTTCCGGGAGCGGGACAACAAGAAGTG
 GAGCCACATGTTCTTCTGATTGAGGATCAAGGTGCCAGGGGTATGAGCTGTTCTTCAAGACTCGGGAG
 CTAAGAAAGAAGTGGATGGAACAGTTTGAATGGCCATCTCCAACATCTACCCAGAAAATGCTACAGCCA
 ATGGACATGATTTTCAGATGTTCTCCTTTGAGGAGACCACTTCTGCAAGGCCTGCCAGATGTTACTCAG
 GGGCACATTCTACCAGGGATATCGTGTACAGGTGCCGTGACCCGCACACAAGGAGTGTCTGGGAAGG
 GTGCCTCATGTGGCCGTCAAGATTTCTCAGGAACCATGAAGAAGGACAAGCTACATCGAAGGGCCAGG
 ACAAGAAAAGGAATGAATTGGGCCTTCTAAGATGGAGGTGTGTCAGGAATACTACGGGATCCCTCCTCC
 TCCCGGAGCCTTTGGCCATTTCTGCGGCTCAACCCTGGGGACATTGTGGAACCTACTAAGCAGAGGCT
 GAACACAACCTGGTGGGAGGGAAGAAAATACAGCTACGAATGAAGTCGGCTGGTTTCCCTGTAAACAGAGTTC
 GTCCCTACGTCCACGGCCCTCCCAGGACCTGTCTGTGCACCTCTGGTATGCGGGCCCCATGGAGCGAGC
 AGGCGCCGAGGGCATCCTACCAACCGCTCTGATGGGACCTACCTGGTGGCGCAAAGGGTGAAGATACA
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 TGTACCGCATCACAGAGAAGAAGGCTTTCCGGGCTCCCGGAACCTGGTAGAGTTTTATCAGCAGAATTC
 CCTAAAAGATTGCTTCAAGTCGTTGGACACCACCTTGCAGTTTCTTACAAGGAACCTGAGAGGAGAGCC
 ATCAACAAGCCGCGGTTGGAAGCACCAAGTATTTTGGCACTGCCAAAGCCGCTACGACTTCTGTGCC
 GGGACCGATCGGAACGTCCCTTAAAGGAGGTGACATCATCAAGATCCTCAACAAGAAGGACAGCAAGG
 CTGGTGGCGTGGGAGATCTATGGCCGATTGGCTGGTTTCCCTTAACCTATGTGGAGGAAGACTATTCT
 GAATACTGC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212778 representing NM_012759
Red=Cloning site Green=Tags(s)

MELWRQCTHWLIQCRVLPSSHRTWEGAQVCELAQALRDGVLLCQLLNLLPHAINLREVNLPQMSQFL
CLKNIRTFLLSTCCEKFGFKRSELFDAFDLFDVQDFGKVIYTLALSSTPIAQNKGIMPFPTEDSALGDED
IYSGLSQIDDTAEDEEDLYDCVENEEAEGDEIYEDLMRSESVPTPPKMTEYDKRCCCLREIQTEEKYT
DTLGSIQQHFMKPLQRFLKPDQMETIFVNIIEELLSVHHTFLKELKDALSGPGATMLYQVFIKYKERFLVY
GRYCSQVESASKHLDQVATAREDVQMKLEECQRANNGRFTLRDLLMVPQVRVLYHLLQLVHTQDT
TEKENLRLALDAMRDLAQCNEVKRDNELRQITNFQLSIENLDQSLANYGRPKIDGELKITSVERRSKT
DRYAFLLDKALLICKRRGDSYDLKASVNLHSFQVRDSSGERDNKKWSHMFLIEDQGAQGYELFFKTRE
LKKKWMEQFEMASNIYPENATANGHDFQMFSEETTCKACQMLLRGTFYQGYRCYCRAPAHKECLGR
VPPCGRQDFSGTMKKDKLHRAQDKKRNELGLPKMEVCQEYYGIPPPGAFGPFRLRNP GDIVELTKAEA
EHNWWEGRNTATNEVGWPCNRVRYVHGPPQDL SVHLWYAGPMERAGAEGILTNRSDGTYLVRQV KDT
AEFAISIKYNVEVKHIKIMTSEGLYRITEKKAFRGLPELVEFYQNSLKDCFKSLDTTLQFPYKEPERRA
INKPPVGSTKYFGTAKARYDFCARDRELSLKEGDI IKILNKKGQGWWRGEIYGRIGWFPSNYVEEDYS
EYC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

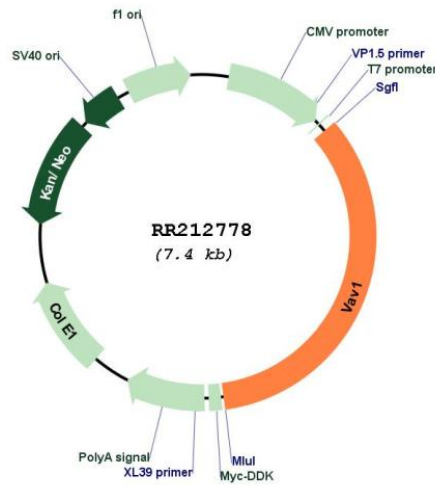
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_012759
ORF Size:	2529 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:	<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_012759.2 , NP_036891.2
RefSeq Size:	2917 bp
RefSeq ORF:	2532 bp
Locus ID:	25156
Cytogenetics:	9q12
MW:	98 kDa
Gene Summary:	guanine nucleotide exchange factor (GEF) from the Rho family of GTP binding proteins; plays a role in T-cell and B-cell development; can activate the c-Jun N-terminal kinase-1 (JNK1) pathway [RGD, Feb 2006]