

## Product datasheet for **TP324806M**

### VAV1 (NM\_005428) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human vav 1 guanine nucleotide exchange factor (VAV1), 100 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC224806 representing NM\_005428  
**Red**=Cloning site **Green**=Tags(s)

MELWRQCTHWLIQCRVLPSSHRTWDGAQVCELAQALRDGVLLCQLLNNLLPHAINLREVNLRPQMSQFL  
CLKNIRTLSTCCEKFGKLRSELEAFDLFDVQDFGKVIYTLALSWTPIAQNRGIMPFPTEESVGD  
IYGLSDQIDDTVEEDEDLYDCVENEEAEGDEIYEDLMRSEPVSMPPKMTEYDKRCCCLREIQQTEEKYT  
DTLGSIQQHFLKPLQRFLKPQDIEIIFINIEDLLRVHTHFLKEMKEALGTPGAANLYQVFIKYKERFLVY  
GRYCSQVESASKHLDRVAAAAREDVQMKLEECQRANNGRFTLRDLLMVPMPQRVLKYHLLLQELVKHTQEA  
MEKENLRLALDAMRDLAQCVNEVKRDNETLRQITNFQLSIENLDQSLAHYGRPKIDGELKITSVERRSKM  
DRYAFLLDKALLICKRRGDSYDLKDFVNLHSFQVRDDSSGDRDNKKWSHMFLLIEDQGAQGYELFFKTR  
LKKKWMEQFEMAI SNIPENATANGHDFQMFSEETTCKACQMLLRGTFYQGYRCHRCRASA HKECLGR  
VPPCGRHGQDFPGTMKKDKLHRAQDKKRNELGLPKMEVFQYGLPPPPGAIGPFLRLNPGDIVELTKA  
EAEQNWWEGRNTSTNEIGWPCNRVKPYVHGPPQDLSVHLWYAGPMERAGAESILANRSDGTFLVRQRVK  
DAAEFAISIKYNVEVKHIKIMTAEGLYRITEKKA FRGLTELVEFYQQNSLKDCFKSLD TTLQFPFKEPEK  
RTISRPAVGSTKYFGTAKARYDFCARDRELSLKEGDIKILNKKGQQGWWRGEIYGRVGFWPANYVEED  
YSEYC

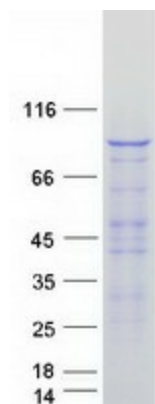
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK  
**Predicted MW:** 98.1 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_005419</a>
<b>Locus ID:</b>	7409
<b>UniProt ID:</b>	<a href="#">P15498</a> , <a href="#">Q96D37</a> , <a href="#">B2R8B5</a>
<b>RefSeq Size:</b>	2888
<b>Cytogenetics:</b>	19p13.3
<b>RefSeq ORF:</b>	2535
<b>Synonyms:</b>	VAV
<b>Summary:</b>	<p>This gene is a member of the VAV gene family. The VAV proteins are guanine nucleotide exchange factors (GEFs) for Rho family GTPases that activate pathways leading to actin cytoskeletal rearrangements and transcriptional alterations. The encoded protein is important in hematopoiesis, playing a role in T-cell and B-cell development and activation. The encoded protein has been identified as the specific binding partner of Nef proteins from HIV-1. Coexpression and binding of these partners initiates profound morphological changes, cytoskeletal rearrangements and the JNK/SAPK signaling cascade, leading to increased levels of viral transcription and replication. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Apr 2012]</p>
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	B cell receptor signaling pathway, Chemokine signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity, Regulation of actin cytoskeleton, T cell receptor signaling pathway

**Product images:**

Coomassie blue staining of purified VAV1 protein (Cat# [TP324806]). The protein was produced from HEK293T cells transfected with VAV1 cDNA clone (Cat# [RC224806]) using MegaTran 2.0 (Cat# [TT210002]).