

Product datasheet for **RC238801**

VAM1 (MPP6) (NM_001303037) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VAM1 (MPP6) (NM_001303037) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MPP6
Synonyms:	p55T; PALS2; VAM-1; VAM1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238801 representing NM_001303037
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGCAAGTCTTGAAAAACCTTACGGAGCTGCCTCGTCTACTGGAGCAGAAGAAATAGACCTAATTT
 TCCTCAAGGGAATTATGGAGAATCCTATTGTAAAATCACTTGCTAAGGCTCATGAGAGGCTAGAAGATTC
 CAAACTAGAAGCTGTCAGTGACAATAAATTGGAATTAGTCAATGAAATCTTGAAGACATCACTCCTCTA
 ATAAATGTGGATGAAAATGTGGCAGAATTGGTTGGTATACTCAAAGAACCTCACTCCAGTCACTGTTGG
 AGGCCCATGATATTGTGGCATCAAAGTGTATGATTACCTCCATCAAGCCAGAAATGAATAATTTCTTC
 TATCAATAATCAGTTATTACCAGTAGATGCCATTCGATTCTTGGTATTCACAAAAGAGCTGGGGAACCA
 CTGGGTGTGACATTTAGGGTTGAAAATAATGATCTGTAATTGCCGAATCCTCCATGGGGGAATGATAG
 ATCGACAAGTCTACTTCATGTGGGAGATATAATTAAGAAGTCAATGGCCATGAGGTTGAAAATAATCC
 AAAGGAATTACAAGAATTACTGAAAAATATTAGTGAAGTGTACCCTAAAAATCTTACCAAGTTATAGA
 GATACCATTACTCCTCAACAGGTATTTGTGAAGTGCATTTTGATTATAATCCATACAATGACAACCTAA
 TACCTTGCAAAGAAGCAGGATTGAAGTTTTCAAAGGAGAGATTCTTCAGATTGTAATAGAGAAGATCC
 AAATTGGTGGCAGGCTAGCCATGTAAGAGAGGGAGGAAGCGCTGGTCTCATTCCAAGCCAGTTCTGGAA
 GAGAAGAGAAAGGCATTTGTTAGAAGAGACTGGGACAATTCAGGACCTTTTTGTGGAACATAAGTAGCA
 AAAAAAGAAAAAGATGATGTATCTCACAACAGAAATGCAGAATTTGATCGTCATGAAATCCAGATATA
 TGAGGAGGTAGCCAAAATGCCTCCCTCCAGAGAAAAACATTAGTATTGATAGGAGCTCAAGGTGTAGGC
 CGAAGAAGCTTGAAAAACAGGTTTATAGTATTGAATCCACTAGATTTGGAACACGGTGCATTTACTT
 CACGGAACCAAGGGAAGATGAAAAAGATGGCCAGGCATATAAGTTTGTGTCACGATCTGAGATGGAAGC
 AGATATTAAGCTGGAAAAGTATTTGGAACATGGGGAATATGAAGGAAATCTCTATGGAACCAAAAATTGAT
 TCTATTCTTGAGTTGTCCAAACTGGACGACTTGCAATCTGGATGTCAACCCACAGCACTGAAAGTAT
 TGAGGACATCAGAGTTTATGCCCTATGTGGTATTTATTGCGGCTCCGGAGCTAGAGACGTTACGTGCCAT
 GCACAAGGCTGTGGTGGATGCAGGAATCACTACCAAGCTTCTGACCGACTCTGACTTGAAGAAAACAGTG
 GATGAAAGTGCACGATTGAGAGAGCATACAACCACTATTTTGATTTGATCATATAAATGATAATCTAG
 ACAAGCCTTTGAAAAACTGCAAACTGCCATAGAGAACTGAGAATGGAACACAGTGGTCCCAATCAG
 CTGGGTTTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238801 representing NM_001303037
 Red=Cloning site Green=Tags(s)

MQQVLENLTELPSSTGAEIDLIFLKGIMENPIVKSLAKAHERLEDSKLEAVSDNNLELVNEILEDITPL
 INVDNAELVILKEPHFQSLLEAHDIVASKCYDSPSPPEMNNSSINNQLLPVDAIRILGIHKRAGEP
 LGVTFRVENNDLVIARILHGGMIDRQGLLHVGDIIKEVNGHEVGNPKELQELLKNI SGSVTLKILPSYR
 DTITPQQVFVKCHFDPYNDNLIPCKEAGLKFSGEILQIVNREDPNWWQASHVKEGGSAGLIPSQFLE
 EKRFVRRDWDNSGPFPGTISKKKKKMYL TTRNAEFDRHEIQIYEEVAKMPPFQRKTLV LIGAQGVG
 RRSKLNRFIVLNPTRFGTVPFTSRKPREDEKDGQAYKFVSRSEMEADIKAGKYLEHGEYEGNLYGTKID
 SILEVVQTGRTCILDVNPQALKVLR TSEFMPYVVFIAAPELET LRAMHKAVVDAGITTKLLTDSDLKKT
 DESARIQRAYNHFDLIIINDNLDKAFEKLQTAIEKLRMEPQWVPISWVY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001303037
ORF Size:	1620 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_001303037.2
RefSeq Size:	7972 bp
RefSeq ORF:	1623 bp
Locus ID:	51678
UniProt ID:	Q9NZW5
Cytogenetics:	7p15.3
Protein Families:	Druggable Genome, Stem cell - Pluripotency
MW:	61.6 kDa
Gene Summary:	Members of the peripheral membrane-associated guanylate kinase (MAGUK) family function in tumor suppression and receptor clustering by forming multiprotein complexes containing distinct sets of transmembrane, cytoskeletal, and cytoplasmic signaling proteins. All MAGUKs contain a PDZ-SH3-GUK core and are divided into 4 subfamilies, DLG-like (see DLG1; MIM 601014), ZO1-like (see TJP1; MIM 601009), p55-like (see MPP1; MIM 305360), and LIN2-like (see CASK; MIM 300172), based on their size and the presence of additional domains. MPP6 is a member of the p55-like MAGUK subfamily (Tseng et al., 2001 [PubMed 11311936]).[supplied by OMIM, Mar 2008]