

Product datasheet for **RG238801**

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:	TurboGFP
Symbol:	VAM1
Synonyms:	p55T; PALS2; VAM-1; VAM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238801 representing NM_001303037.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCAGCAAGTCTTGGAAAACCTTACGGAGCTGCCCTCGTCTACTGGAGCAGAAGAAATAGACCTAATT
TTCCTCAAGGGAATTATGGAGAATCCTATTGTAAAACACTTGTCAAGGCTCATGAGAGGCTAGAAGAT
TCCAAACTAGAAGCTGTCAAGTACAATAAAGTGAATAGTCAATGAAATTCCTGAAGACATCACTCCT
CTAATAAATGTGGATGAAATGTGGCAGAAATGGTTGGTATACTCAAAGAACCTCACTTCCAGTCACTG
TTGGAGGCCCATGATATTGTGGCATCAAAGTGTATGATTCACCTCCATCAAGCCAGAAATGAATAAT
TCTTCTATCAATAATCAGTTATTACCAGTAGATGCCATTCGATTCCTGGTATTCACAAAAGAGCTGGG
GAACCACTGGGTGTGACATTTAGGGTTGAAAATAATGATCTGTAATGCCCGAATCCTCCATGGGGGA
ATGATAGATCGACAAGGTCTACTTCATGTGGGAGATATAATTAAGAAGTCAATGGCCATGAGGTTGGA
AATAATCAAAGGAATTACAAGAATTACTGAAAAATATTAGTGAAGTGTCAACCTAAAAATCTTACCA
AGTTATAGAGATACCATTACTCCTCAACAGGTATTTGTGAAGTGCATTTTGATTATAATCCATACAAT
GACAACCTAATACCTTGCAAAGAAGCAGGATTGAAGTTTTCAAAGGAGAGATTCTTCAGATTGTAAT
AGAGAAGATCAAATGGTGGCAGGCTAGCCATGTAAAAGAGGGAGGAAGCGCTGGTCTCATTCCAAGC
CAGTTCCTGGAAGAGAAGAGAAAGGCATTTGTTAGAAGAGACTGGGACAATTCAGGACCTTTTTGTGGA
ACTATAAGTAGCAAAAAAGAAAAAGATGATGTATCTCACAAACCAGAAATGCAGAAATTTGATCGTCAT
GAAATCCAGATATATGAGGAGGTAGCCAAATGCCTCCCTCCAGAGAAAAACATTAGTATTGATAGGA
GCTCAAGTGTAGGCCGAAGAAGCTTAAAAACAGGTTTCATAGTATTGAATCCCCTAGATTTGGAAT
ACGGTGCCATTTACTTCACGGAACCAAGGAAGATGAAAAGATGGCCAGGCATATAAGTTTGTGTCA
CGATCTGAGATGGAAGCAGATATTAAGCTGGAAGTATTTGAAACATGGGGAATATGAAGGAAATCTC
TATGGAACCAAAAATTGATTCTATTCTTGAAGTTGTCAAAGTGGACGACTTGCATTCTGGATGTCAAC
CCACAAGCACTGAAAGTATTGAGGACATCAGAGTTTATGCCCTATGTGGTATTTATTGCGCTCCGGAG
CTAGAGACGTTACGTGCCATGCACAAGGCTGTGGTGGATGCAGGAATCACTACCAAGCTTCTGACCGAC
TCTGACTTGAAGAAAACAGTGGATGAAAGTGCACGGATTGAGAGAGCATAACAACCACTATTTTGATTG
ATCATATAAATGATAATCTAGACAAAGCCTTTGAAAACTGCAAAGTGCATAGAGAACTGAGAATG
GAACACAGTGGTCCCAATCAGCTGGGTTTAC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
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Protein Sequence:

>Peptide sequence encoded by RG238801
 Blue=ORF Red=Cloning site Green=Tag(s)

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MQQVLENLTELPSSTGAEEIDLIFLKGIMENPIVKSLAKAHERLEDSKLEAVSDNNLELVNEILEDITP
LINVDENVAELVGILKEPHFQSLLEAHDIVASKCYDSPSPPEMNSSINQLLPVDAIRILGIHKRAG
EPLGVTFRVENNDLVIARILHGGMIDRQGLLHVGDIIKEVNGHEVGNPKELQELLKNISGSVTLKILP
SYRDTITPQQVFKCHFDPYNDNLIPCKEAGLKF SKGEILQIVNREDPNWWQASHVKEGGSAGLIPS
QFLEEKRFKAFVRRDWDNSGPFCTISSKKKKMMYLTRNAEFRHEIQIYEEVAKMPFFQRKTLVLIG
AQGVGRRSLKNRFIVLNPTRFGTTPFTSRKPREDEKDGQAYKFVSRSEMEADIKAGKYLEHGEYEGNL
YGTKIDSILEVVQTGRTCILDVNPQALKVLRSEFMPYVVFIAAPELETLRAMHKAVVDAGITTKLLTD
SDLKKTVDDESARIQRAYNHFDLIIINDNLDKAFEKLQTAIEKLRMEPQWVPISWVY
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

Restriction Sites:

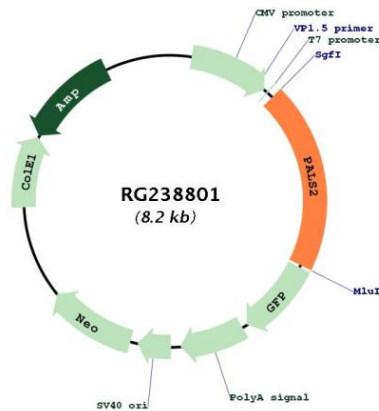
Sgfl-MluI

Cloning Scheme:


- 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).
- 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]

Product images:


Circular map for RG238801