

Product datasheet for **RG205667**

VAM1 (MPP6) (NM_016447) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VAM1 (MPP6) (NM_016447) 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:

>RG205667 representing NM_016447
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGCAAGTCTTGAAAACCTTACGGAGCTGCCTCGTCTACTGGAGCAGAAGAAATAGACCTAATTT
 TCCTCAAGGGAATTATGGAGAATCCTATTGTAAAATCACTTGCTAAGGCTCATGAGAGGCTAGAAGATTC
 CAAACTAGAAGCTGTCAGTGACAATAAATTGGAATTAGTCAATGAAATCTTGAAGACATCACTCCTCTA
 ATAAATGTGGATGAAAATGTGGCAGAATTGGTTGGTATACTCAAAGAACCTCACTCCAGTCACTGTTGG
 AGGCCCATGATATTGTGGCATCAAAGTGTATGATTCACCTCCATCAAGCCAGAAATGAATAATCTTTC
 TATCAATAATCAGTTATTACCAGTAGATGCCATTCGATTCCTGGTATTCACAAAAGAGCTGGGGAACCA
 CTGGGTGTGACATTTAGGGTTGAAAATAATGATCTGTAATTGCCGAATCCTCCATGGGGGAATGATAG
 ATCGACAAGTCTACTTCATGTGGGAGATATAATTAAGAAGTCAATGGCCATGAGGTTGAAAATAATCC
 AAAGGAATTACAAGAATTACTGAAAAATATTAGTGAAGTGTACCCTAAAAATCTTACCAAGTTATAGA
 GATACCATTACTCCTCAACAGGTATTTGTGAAGTGCATTTTGTATTATAATCCATACAATGACAACCTAA
 TACCTTGCAAAGAAGCAGGATTGAAGTTTTCAAAGGAGAAATCTTCAGATTGTAATAGAGAAGATCC
 AAATTGGTGGCAGGCTAGCCATGTAAGAGAGGGAGGAAGCGCTGGTCTCATTCCAAGCCAGTTCTGGAA
 GAGAAGAGAAAGGCATTTGTTAGAAGAGACTGGGACAATTCAGGACCTTTTTGTGGAACATAAGTAGCA
 AAAAAAGAAAAGATGATGTATCTCACAACAGAAATGCAGAATTTGATCGTCATGAAATCCAGATATA
 TGAGGAGGTAGCCAAAATGCCTCCCTCCAGAGAAAAACATTAGTATTGATAGGAGCTCAAGGTGTAGGC
 CGAAGAAGCTTGAAAACAGGTTTATAGTATTGAATCCCACTAGATTTGGAACACGGTGCATTTACTT
 CACGGAACCAAGGGAAGATGAAAAGATGGCCAGGCATATAAGTTTGTGTCACGATCTGAGATGGAAGC
 AGATATTAAGCTGGAAAAGTATTTGGAACATGGGGAATATGAAGGAAATCTCTATGGAACCAAAAATTGAT
 TCTATTCTTGAGTTGTCCAAACTGGACGACTTGCATTCTGGATGTCAACCCACAGCACTGAAAGTAT
 TGAGGACATCAGAGTTTATGCCCTATGTGGTATTTATTGCGGCTCCGGAGCTAGAGACGTTACGTGCCAT
 GCACAAGGCTGTGGTGGATGCAGGAATCACTACCAAGCTTCTGACCGACTCTGACTTGAAGAAAACAGTG
 GATGAAAGTGCACGATTGAGAGAGCATACAACCACTATTTTGTATTGATCATATAAATGATAATCTAG
 ACAAAGCCTTTGAAAACACTGCAAACTGCCATAGAGAACTGAGAATGGAACACAGTGGTCCCAATCAG
 CTGGGTTTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205667 representing NM_016447
 Red=Cloning site Green=Tags(s)

MQQVLENLTELPSSTGAEEIDLIFLKGIMENPIVKSLAKAHERLEDSKLEAVSDNNELELVNEILEDITPL
 INVDEVAELVGLKEPHFQSLLEAHDIVASKCYDSPSPPEMNNSSINNQLLPVDAIRILGIHKRAGEP
 LGVTRFVENNDLVIARILHGGMIDRQGLLHVGDIIKEVNGHEVGNPKELQELLKNI SGSVTLKILPSYR
 DTITPQQVFVKCHFDYNPYNDNLIPCKEAGLKFSKGEILQIVNREDPNWWQASHVKEGGSAGLIPSQFLE
 EKRFKAFVRRDWDNSGPFPGTISKKKKKMMYL TTRNAEFDRHEIQIYEEVAKMPPFQRKTLV LIGAQVGV
 RRSLKNRFIVLNPTRFGTTPFTSRKPREDEKDGQAYKFVSRSEMEADIKAGKYLEHGEYEGNLYGTKID
 SILEVVQTGRTCILDVNPQALKVLR TSEFMPYVVFIAAPELET LRAMHKAVVDAGITTKLLTDSDLKKT
 V DESARIQRAYNHYFDLIIINDNLDAFEKLQTAIEKLRMEPQWVPI SWVY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_016447

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:**
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_016447.2](#), [NP_057531.2](#)

RefSeq Size: 2201 bp

RefSeq ORF: 1623 bp

Locus ID: 51678

UniProt ID: [Q9NZW5](#)

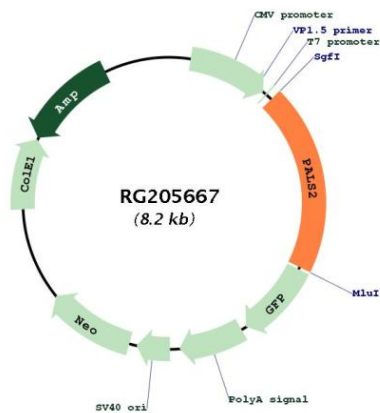
Cytogenetics: 7p15.3

Domains: SH3, PDZ, L27, Guanylate_kin, GuKc

Protein Families: Druggable Genome, Stem cell - Pluripotency

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 RG205667