

Product datasheet for **MR203158**

Vapa (NM_013933) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vapa (NM_013933) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Vapa
Synonyms: 33kDa; VAP33
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR203158 representing NM_013933
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCCGCCTCCGGGGCCATGGCGAAGCACGAGCAGATCCTGGTCCTCGACCCTCCTTCAGACCTCA
AATTCAAAGGCCCTTCACAGATGTAGTCACTACAAATCTTAAATTGCAAAATCCATCGGATAGAAAAGT
GTGTTCAAAGTGAAGACTACAGCACCTCGCCGTTACTGTGTGCGGCCAACAGTGGGATTATTGACCCG
GGTCAATTGTGACTGTTTCAGTAATGCTGCAACCCTTTGATTATGATCCGAATGAAAAGAGTAAACATA
AGTTCATGGTACAGACAATTTTTGCTCCACCAACATTTTCAGATATGGAAGCTGTGTGGAAGAAGCAAA
ACCTGATGAATTAATGGATTCTAAATTGAGATGTGTGTTGAAATGCCGAATGAAAATGATAAGCTGAAT
GATATGGAACCTAGCAAAGCTGTTCACATGAATGCATCCAACAAGACGGACCCCTGCCAAAACACACA
GTGTTTCACTCAATGATACGGAACAAGGAAACTGATGGAAGAGTGCAAGCGACTCCAGGGAGAAATGAT
GAAGCTCTCAGAAGAAAACCGACACCTGAGAGATGAAGGCCTAAGGCTCAGAAAGGTAGCACATTCGGAT
AAACCTGGATCCACCTCAGCCGTGCTTCAGAGATAATGTCACCAGTCTCTTCTTCTTCTGTTG
TAATTGCAGCCATTTTCATTGGATTCTTTCTAGGGAAATTCATCTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203158 representing NM_013933
 Red=Cloning site Green=Tags(s)

MASASGAMAKHEQILVLDPPSDLKFKGPFTDVVTTNLKLNQNSDRKVCVKVKTAPRRYCVRPNSGIIDP
 GSIVTVSVMLQPFDYDPNEKSKHKFMVQTI FAPPNISDMEAVWKEAKPDELMDSKLRVCFEMPENNDKLN
 DMEPSKAVPLNASKQDGPLPKPHSVSLNDTETRKLMEECKRLQGEMMKLSEENRHLRDEGLRLRKAHSD
 KPGSTSAVSFRDNVTSPLPSLLVVIAAIFIGFFLGKFIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9027_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_013933

ORF Size: 747 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_013933.3](#), [NP_038961.2](#)

RefSeq Size: 1658 bp

RefSeq ORF: 750 bp

Locus ID: 30960

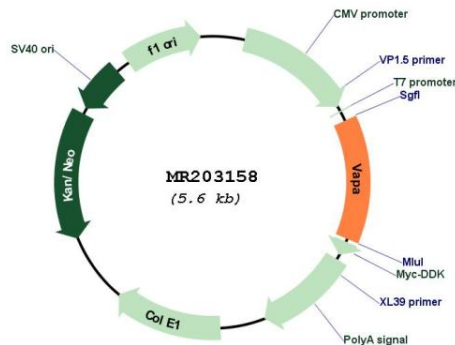
UniProt ID: [Q9WV55](#)

Cytogenetics: 17 E1.1

MW: 28.3 kDa

Gene Summary: Binds to OSBPL3, which mediates recruitment of VAPA to plasma membrane sites. The ORP3-VAPA complex stimulates RRAS signaling which in turn attenuates integrin beta-1 (ITGB1) activation at the cell surface. With OSBPL3, may regulate ER morphology. May play a role in vesicle trafficking.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203158