

## Product datasheet for **RC214308**

### VAPA (NM\_003574) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VAPA (NM_003574) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VAPA
Synonyms:	hVAP-33; VAMP-A; VAP-33; VAP-A; VAP33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214308 representing NM_003574 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGCGTCCGCCTCAGGGGCCATGGCGAAGCACGAGCAGATCCTGGTCCTCGATCCGCCACAGACCTCA  
AATTCAAAGGCCCTTCACAGATGTAGTCACTACAAATCTTAAATTGCGAAATCCATCGGATAGAAAAGT  
GTGTTCAAAGTGAAGACTACAGCACCTCGCCGACTGTGTGAGGCCAACAGTGAATTATTGACCCA  
GGGTCAACTGTGACTGTTTCAGTAATGCTACAGCCCTTTGACTATGATCCGAATGAAAAGAGTAAACACA  
AGTTTATGGTACAGACAATTTTTGCTCCACCAACACTTCAGATATGGAAGCTGTGTGAAAGAGGCAAA  
ACCTGATGAATTAATGGATTCCAAATTGAGATGCGTATTTGAAATGCCCAATGAAAATGATAAATGGGT  
ATAACTCCACCAGGGAATGCTCCGACTGTCACTTCAATGAGCAGCATCAACAACACAGTTGCAACACCTG  
CCAGTTATCACACGAAGGATGACCCAGGGGACTCAGTGTGTTGAAACAGGAGAAACAGAAGAATGATAT  
GGAACCTAGCAAAGCTGTTCCACTGAATGCATCTAAGCAAGATGGACCTATGCCAAAACACACAGTGT  
TCACTTAATGATACCGAAACAAGGAACTAATGGAAGAGTGTAAAAGACTTCAGGGAGAAATGATGAAGC  
TATCAGAAGAAAATCGGCACCTGAGAGATGAAGGTTTAAAGGCTCAGAAAGGTAGCACATTCGGATAAACC  
TGGATCAACCTCAACTGCATCCTTCAGAGATAATGTCACCAGTCCTCTTCCTTCACTTCTGTTGTAATT  
GCAGCCATTTTCATTGGATTCTTTCTAGGAAATTCATCTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC214308 representing NM\_003574  
Red=Cloning site Green=Tags(s)

MASASGAMAKHEQILVLDPPTDLKFKGPFTDVVTTNLKLRNPSDRKVCFKVKTAPRRYCVRPNSGIIDP  
 GSTVTVSVMLQPFDYDPNEKSKHKFMVQTI FAPPNTSDMEAVWKEAKPDELMDSKLRVCFEMPENNDKLG  
 ITPPGNAPTVTSMSSINNTVATPASYHTKDDPRGLSVLKQEKQKNDMEPSKAVPLNASKQDGPMPKPHSV  
 SLNDTETRKLMEECKRLQGEMMKLSEENRHLRDEGLRLRKVAHSDKPGSTSTASFRDNVTSPLPSLLVVI  
 AAIFIGFLLGKFIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3200\\_g01.zip](https://cdn.origene.com/chromatograms/mg3200_g01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003574

**ORF Size:** 882 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\\_003574.6](#)

**RefSeq Size:** 6994 bp

**RefSeq ORF:** 885 bp

**Locus ID:** 9218

**UniProt ID:** [Q9P0L0](#)

**Cytogenetics:** 18p11.22

**Domains:** MSP\_domain

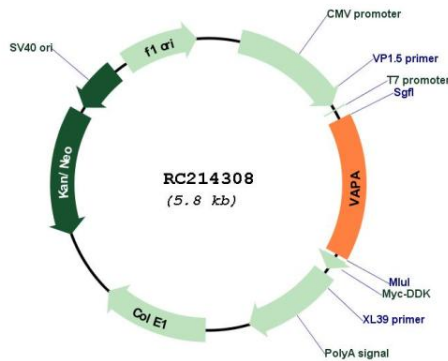
**Protein Families:** Transmembrane

**Protein Pathways:** Tight junction

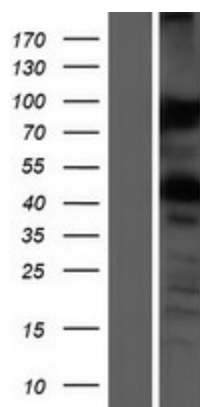
**MW:** 32.4 kDa

**Gene Summary:** The protein encoded by this gene is a type IV membrane protein. It is present in the plasma membrane and intracellular vesicles. It may also be associated with the cytoskeleton. This protein may function in vesicle trafficking, membrane fusion, protein complex assembly and cell motility. Alternative splicing occurs at this locus and two transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Jul 2008]

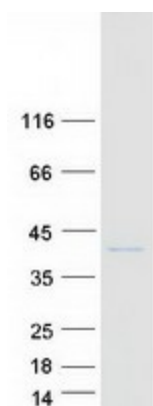
### Product images:



Circular map for RC214308



Western blot validation of overexpression lysate (Cat# [LY418581]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214308 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VAPA protein (Cat# [TP314308]). The protein was produced from HEK293T cells transfected with VAPA cDNA clone (Cat# RC214308) using MegaTran 2.0 (Cat# [TT210002]).