

## Product datasheet for **SC117187**

### VAPB (NM\_004738) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VAPB (NM_004738) Human Untagged Clone
Tag:	Tag Free
Symbol:	VAPB
Synonyms:	ALS8; VAMP-B; VAP-B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004738, the custom clone sequence may differ by one or more nucleotides

```
ATGGCGAAGGTGGAGCAGGTCCTGAGCCTCGAGCCGACGACGAGCTCAAATTCGAGGTCCTTACCG
ATGTTGTCACCACCAACCTAAAGCTTGGCAACCCGACAGACCGAAATGTGTGTTTTAAGGTGAAGACTAC
AGCACCACGTAGGTACTGTGTGAGGCCAACAGCGGAATCATCGATGCAGGGGCCCAATTAATGTATCT
GTGATGTTACAGCCTTTCGATTATGATCCCAATGAGAAAAGTAAACACAAGTTTATGGTTCAGTCTATGT
TTGCTCCAACCTGACACTTCAGATATGGAAGCAGTATGGAAGGAGGCAAAACCGGAAGACCTTATGGATTC
AAAACCTTAGATGTGTGTTGAATTGCCAGCAGAGAATGATAAACACATGATGTAGAAAATAAATAAATT
ATATCCACAACCTGCATCAAAGACAGAAACACCAATAGTGTCTAAGTCTCTGAGTTCTTCTTGGATGACA
CCGAAGTTAAGAAGGTTATGGAAGAATGTAAAGAGGCTGCAAGGTGAAGTTCAGAGGCTACGGGAGGAGAA
CAAGCAGTTCAAGGAAGAAGATGGACTGCGGATGAGGAAGACAGTGCAGAGCAACAGCCCCATTTAGCA
TTAGCCCCAAGTGGGAAGGAAGAAGGCCTTAGCACCCGGCTCTTGGCTCTGGTGGTTTTGTTCTTTATCG
TTGGTGAATTATTGGGAAGATTGCCTTGTAG
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004738 unedited  
 GCTTTGCGGATTTGTAATCCGACTTACTATAGGNCGGCACGCGCAATTCGGCACGAGGC  
 GCCCTCGCCCTCCGCCCTGCGCCTGCACCGCGTAGACCGACCCCCCCCCCATCGCGCC  
 CACCCGGTAGAGGACCCCGCCCGTGCACCGACCGTCCCGCCTTTTGTAAAACCTAA  
 AGCGGGCGCAGCATTAAACGCTTCCCGCCCGGTGACCTCTCATGGGTCTCCCGCCAAAG  
 GTGCTCCGCCGCTAAGGAACATGGCGAAGTGGAGCAGGTCTGAGCCTCGAGCCGACG  
 ACGAGCTCAAATTCGAGGTCCCTTACCAGATGTTGTACCACCAACCTAAAGCTTGGCA  
 ACCCGACAGACCGAAATGTGTGTTTTAAGGTGAAGACTACAGCACACGTAGGACTGTG  
 TGAGGCCCAACAGCGGAATCATCGATGCAGGGCCTCAATTAATGTATCTGTGATGTTAC  
 AGCCTTTCGATTATGATCCCAATGAGAAAAGTAAACACAAGTTTATGGTTCAGTCTATGT  
 TTGCTCCAACGACACTTACAGATATGGAAGCAGTATGGAAGGAGGCAAAACCGGAAGACC  
 TTATGGATTCAAACCTTAGATGTGTGTTGAATTGCCAGCAGAGAATGATAAACACATG  
 ATGTAGAAATAAATAAAATTATATCCACAACGTCATCANAGACAGANACACCAATAGTGT  
 CTAAGTCTCTGAGTTCTTCTTTGGATGACACCGAAAGTAAAGAAATTATGGAAGAATGCT  
 AGATGCTGNCAGGTGAGCTCANATGCTACGGGAGGAGAACAAGCAGTTCAAGGAAAGAGA  
 TGGACTGCNGATGATGAAGACAGTGCAGAGCATCAGCCCCATTGACGATTAGCCCCAC  
 TGGGAAGGAAGAATGCCNNTANACCCNGCTCTTGGCTCTGGTAGGGTTGGTCTTATCG  
 TAGGAGTATNTATG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004738 unedited  
 TTTATTATAATTTTTCTTTTCAGAATGCTACATAGTCAAACAGAAGTGGGTTGGTCTTTT  
 ATGGCATAAAAATTAATTCACAGTCAAACCTCACTAGTACTAGAAGGATTCGCTGAAGA  
 GTTTCTCTCTCCCTTGGTCCCCACCCACAACCTGCTGGTGCCTCGCTTCAACCCTCTG  
 CAGCCCGATCCATTTGTCTGACTCCAGGCTAGTCCCAAGGGGAGGTCAGGCTCAGAC  
 TTGGACCTGGGGCTGGAAGTGTGAGTAATGGTTGAGAGGTGGTATAAGAACAATCTAGA  
 AGACTGACTACTTTCATTA AAAAAGGTAACTAGAGTTGACTGTCACTACTGAGAATTT  
 CCCTCCCTATGACAGTTGTTATTTACTGACCCAGAAAAACACTTCTGGCAGCTCTTCT  
 CCAGCATCCCAATAAACCCACCTCCACATGACCAGACTCTCCAGAGACAGAGGAGCCCA  
 CAGCCCTCCAGCAGCAATACCAGTTCACCCAACAGAGTTCAGCAGCACGCAGCATTAACT  
 GTACTCTTGTGACAATAAGAAAAACATGAGATGAAATACATTAATAAGTTAAATATGCAT  
 TAAACATCTGTAATAACAGTTTGACTTCACTACATGAACCAATACAAATTTAGCTTGGT  
 CCCTTTAAGTGAACAAAGCACTGCCATNTATTTCAAAGCGCTGGGTCATCAGTCAACA  
 CACGCCTCTCACTTATGACGAGTACGTCTGATGCTGNCACAGTGAATTCCTTTTGGCTT  
 CTGACTCTGNTCATCAGTCCCAAGGAGCTGATGGCTTGGACAGAACTGAGACAGGNAAA  
 GCAGNCTGGCCCGNAGTGGCCACGTNNGGGACTACTGTGTGNAGCTGACCGNNACTCC  
 CACATGCTGGNCTCAGTCCCCAGGGCCAGCACAGGCGAGGAGGTTTCATNTAG  
 AGAGGTATCCAGCTCTGTACCAGCCTACATGNTAAATGACNTACATTTGCATGNGGCAT  
 ACTAAGGGTCCCTGCATATAAGACTA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004738

**Insert Size:**

2440 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_004738.3](#), [NP\\_004729.1](#)

**RefSeq Size:** 3689 bp

**RefSeq ORF:** 732 bp

**Locus ID:** 9217

**UniProt ID:** [O95292](#)

**Cytogenetics:** 20q13.32

**Domains:** MSP\_domain

**Protein Families:** Transmembrane

**Gene Summary:** The protein encoded by this gene is a type IV membrane protein found in plasma and intracellular vesicle membranes. The encoded protein is found as a homodimer and as a heterodimer with VAPA. This protein also can interact with VAMP1 and VAMP2 and may be involved in vesicle trafficking. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.