

## Product datasheet for **RG200517**

### VAPB (NM\_004738) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VAPB (NM_004738) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VAPB
Synonyms:	ALS8; VAMP-B; VAP-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200517 representing NM_004738 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGAAGGTGGAGCAGGTCTGAGCCTCGAGCCGACGACGAGCTCAAATCCGAGGTCCTTCACCG  
ATGTTGCACCACCAACCTAAAGCTTGGCAACCCGACAGACCGAAATGTGTGTTTAAAGTGAAGACTAC  
AGCACCACGTAGGTACTGTGTGAGGCCAACAGCGGAATCATCGATGCAGGGCCTCAATTAATGTATCT  
GTGATGTTACAGCCTTTCGATTATGATCCCAATGAGAAAAGTAAACACAAGTTTATGGTTCAGTCTATGT  
TTGCTCCAACCTGACACTTCAGATATGGAAGCAGTATGGAAGGAGGCAAAACCGGAAGACCTTATGGATTC  
AAAACCTTAGATGTGTGTTGAATTGCCAGCAGAGAATGATAAACACATGATGTAGAAATAAATAAATT  
ATATCCCAACTGCATCAAGACAGAAACACCAATAGTGTCTAAGTCTCTGAGTCTTCTTTGGATGACA  
CCGAAGTTAAGAAGGTTATGGAAGAATGTAAGAGGCTGCAAGGTGAAGTTCAGAGGCTACGGGAGGAGAA  
CAAGCAGTTCAAGGAAGAAGATGGACTGCGGATGAGGAAGACAGTGCAGAGCAACAGCCCCATTTAGCA  
TTAGCCCCAACTGGGAAGGAAGAAGGCCTTAGCACCCGGCTCTTGCTCTGGTGGTTTTGTTCTTTATCG  
TTGGTGAATTATTGGGAAGATTGCCTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200517 representing NM\_004738  
 Red=Cloning site Green=Tags(s)

MAKVEQVLSLEPQHELKFRGPFTDVVTTNLKLGNPTRNVCFKVKTTAPRRYCVRPNSGIIDAGASINVS  
 VMLQPFYDPNEKSKHKFMVQSMFAPTDSDMEAVWKEAKPEDLMDSKLRVCFELPAENDKPHDVEINKI  
 ISTTASKTETPIVSKSLSSSLDDTEVKKVMEECKRLQGEVQRLREENKQFKEEDGLMRKTVQSNPISA  
 LAPTGKEEGLSTRLLALVVLFFIVGVIIIGKIAL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004738

**ORF Size:** 729 bp

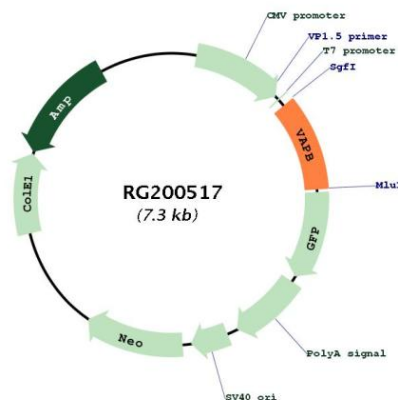
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004738.5</a>
<b>RefSeq Size:</b>	3689 bp
<b>RefSeq ORF:</b>	732 bp
<b>Locus ID:</b>	9217
<b>UniProt ID:</b>	<a href="#">O95292</a>
<b>Cytogenetics:</b>	20q13.32
<b>Domains:</b>	MSP_domain
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]

## Product images:



Circular map for RG200517