

Product datasheet for RG207533

VAMP2 (NM 014232) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: VAMP2 (NM_014232) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: VAMP2

Synonyms: NEDHAHM; SYB2; VAMP-2

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG207533 representing NM_014232

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTCTGCTACCGCTGCCACGGCCCCCCTGCTGCCCCGGCTGGGGAGGGTGGTCCCCCTGCACCCCCTC
CAAACCTCACCAGTAACAGGAGACTGCAGCAGACCCAGGCCCAGGTGGATGAGGTGGACCATCATGAG
GGTGAACGTGGACAAGGTCCTGGAGCGAGACCAGAAGCTGCTGGAGCGACCGTGCAGATGCACTC
CAGGCGGGGGCCTCCCAGTTTGAAACAAGCGCAGCCAAGCTCAAGCGCAAATACTGGTGGAAAAAACCTCA
AGATGATGATCATCTTGGGAGTGATTTGCGCCATCATCATCATCATCATCATAGTTTACTTCAGCACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207533 representing NM_014232

Red=Cloning site Green=Tags(s)

MSATAATAPPAAPAGEGGPPAPPPNLTSNRRLQQTQAQVDEVVDIMRVNVDKVLERDQKLSELDDRADAL

QAGASQFETSAAKLKRKYWWKNLKMMIILGVICAIILIIIIVYFST

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



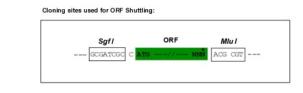
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

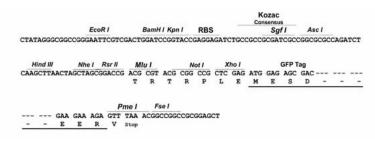
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





ACCN: NM_014232

ORF Size: 348 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 customercom 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.

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: <u>NM 014232.3</u>

RefSeq Size: 2159 bp
RefSeq ORF: 351 bp
Locus ID: 6844
UniProt ID: P63027

Cytogenetics: 17p13.1

Domains: synaptobrevin

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: SNARE interactions in vesicular transport

Gene Summary: The protein encoded by this gene is a member of the vesicle-associated membrane protein

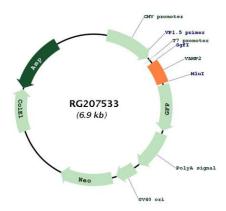
(VAMP)/synaptobrevin family. Synaptobrevins/VAMPs, syntaxins, and the 25-kD

synaptosomal-associated protein SNAP25 are the main components of a protein complex involved in the docking and/or fusion of synaptic vesicles with the presynaptic membrane. This gene is thought to participate in neurotransmitter release at a step between docking and fusion. The protein forms a stable complex with syntaxin, synaptosomal-associated protein, 25 kD, and synaptotagmin. It also forms a distinct complex with synaptophysin. It is a likely candidate gene for familial infantile myasthenia (FIMG) because of its map location and because it encodes a synaptic vesicle protein of the type that has been implicated in the

pathogenesis of FIMG. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RG207533