

## 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 Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG207533 representing NM\_014232  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGCTACCGCTGCCACGGCCCCCTGCTGCCCGGCTGGGGAGGGTGGTCCCCTGCACCCCTC  
CAAACCTACCAGTAACAGGAGACTGCAGCAGACCCAGGCCAGGTGGATGAGGTGGTGGACATCATGAG  
GGTGACGTGGACAAGGTCCTGGAGCGAGACCAGAAGCTGTCGGAGCTGGACGACCGTGCAGATGCACTC  
CAGGCGGGGGCTCCCAGTTTGAACAAGCGCAGCCAAGCTCAAGCGCAAATACTGGTGGAAAACTCA  
AGATGATGATCATCTTGGGAGTGATTTGCGCCATCATCCTCATCATCATAGTTTACTTCAGCACT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG207533 representing NM\_014232  
Red=Cloning site Green=Tags(s)

MSATAATAPPAAPAGEGGPPAPPNLTSNRRLQQTQAQVDEVVDIMRVNVKVLERDQKLSLDDRADAL  
QAGASQFETSAAKLKRKYWWKLNKMMIILGVICAIILIIIVYFST

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

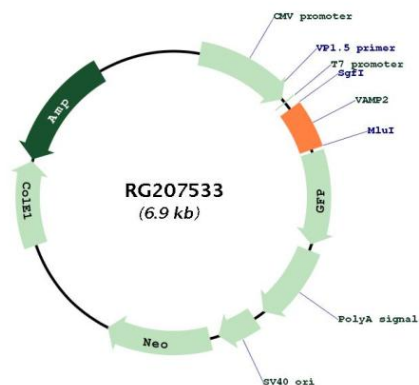


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<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room 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_014232.3</a>
<b>RefSeq Size:</b>	2159 bp
<b>RefSeq ORF:</b>	351 bp
<b>Locus ID:</b>	6844
<b>UniProt ID:</b>	<a href="#">P63027</a>
<b>Cytogenetics:</b>	17p13.1
<b>Domains:</b>	synaptobrevin
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	SNARE interactions in vesicular transport
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RG207533