

## Product datasheet for **RG220854**

### VAMP1 (NM\_014231) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** VAMP1 (NM\_014231) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** VAMP1  
**Synonyms:** CMS25; SPAX1; SYB1; VAMP-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG220854 representing NM\_014231  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGCTCCAGCTCAGCCACCTGCTGAAGGGACAGAAGGGACTGCCCCAGGTGGGGTCCCCCTGGCC  
CTCCTCCTAACATGACCAGTAACAGACGACTACAGCAAACCCAGGCACAAGTGGAGGAGGTGGTGGACAT  
CATACGTGTGAACGTGGACAAGTCTGGAGAGGGACCAGAAGCTGTGAGAGCTGGATGACCGAGCTGAT  
GCCTTGCAGGCAGGAGCATCACAATTTGAGAGCAGTGTGCAAAGCTAAAGAGGAAGTATTGGTGGAAAA  
ACTGCAAGATGATGATCATGCTGGGAGCCATCTGTGCCATCATCGTGGTAGTTATTGTAATCTACTTTT  
TACT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG220854 representing NM\_014231  
Red=Cloning site Green=Tags(s)  
MSAPAQPPAEGTEGTAPGGPPGPPNMTSNRRLQQTQAQVEEVVDIIRVNVDKVLERDQKLSLEDDRAD  
ALQAGASQFESSAAKLRKYWWKNCKMMIMLGAICAIIVVVIVYFFT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_014231

**ORF Size:** 354 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.

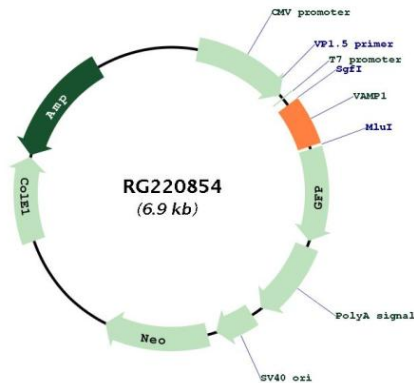
**RefSeq:** [NM\\_014231.3](#), [NP\\_055046.1](#)

**RefSeq Size:** 2748 bp

**RefSeq ORF:** 357 bp

**Locus ID:** 6843  
**UniProt ID:** [P23763](#)  
**Cytogenetics:** 12p13.31  
**Domains:** synaptobrevin  
**Protein Families:** Secreted Protein, Transmembrane  
**Protein Pathways:** SNARE interactions in vesicular transport  
**Gene Summary:** Synaptobrevins, syntaxins, and the 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. The protein encoded by this gene is a member of the vesicle-associated membrane protein (VAMP)/synaptobrevin family. Mutations in this gene are associated with autosomal dominant spastic ataxia 1. Multiple alternative splice variants have been described, but the full-length nature of some variants has not been defined. [provided by RefSeq, Jul 2014]

### Product images:



Circular map for RG220854