

Product datasheet for **RG235730**

VAMP1 (NM_001297438) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VAMP1 (NM_001297438) 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: >RG235730 representing NM_001297438.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCTGCTCCAGCTCAGCCACCTGCTGAAGGGACAGAAGGGACTGCCCCAGGTGGGGTCCCTGGC
CCTCCTCTAACATGACCAGTAACAGACGACTACAGCAAACCCAGGCACAAGTGGAGGAGGTGGTGGAC
ATCATACGTGTGAACGTGGACAAGTCTGGAGAGGGACCAGAAGCTGTCAGAGCTGGATGACCGAGCT
GATGCCTTGCAGGCAGGAGCATCACAATTTGAGAGCAGTGTGCCAAGCTAAAGAGGAAGTATTGGTGG
AAAACTGCAAGATGATGATCATGCTGGGAGCCATCTGTGCCATCATCGGTAGTTATTGAAGAAGA
GGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235730
Blue=ORF Red=Cloning site Green=Tag(s)

```
MSAPAQPPAEGTEGTAPGGGPPGPPNMTSNRRLQQTQAQVEEVVDIIRVNVDKVLERDQKLSLDDRA
DALQAGASQFESSAAKLKRKYWWKNCKMMIMLGAICAIIVVIVRRG
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001297438

ORF Size: 348 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).

RefSeq: [NM_001297438.2](#)

RefSeq Size: 1453 bp

RefSeq ORF: 351 bp

Locus ID: 6843

UniProt ID: [P23763](#)

Cytogenetics: 12p13.31

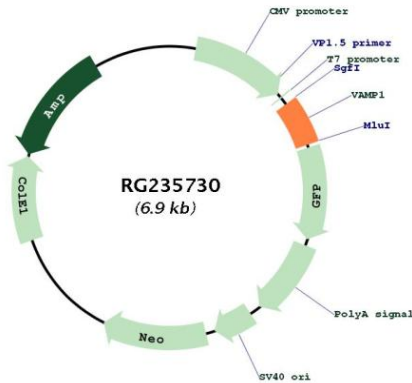
Protein Families: Secreted Protein, Transmembrane

Protein Pathways: SNARE interactions in vesicular transport

MW: 13 kDa

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 RG235730