

## Product datasheet for **RG202068**

### SNAP25 (NM\_003081) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SNAP25 (NM\_003081) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SNAP25  
**Synonyms:** bA416N4.2; CMS18; dj1068F16.2; RIC-4; RIC4; SEC9; SNAP; SNAP-25; SUP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202068 representing NM\_003081  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCGAAGACGCAGACATGCGCAATGAGCTGGAGGAGATGCAGCGAAGGGCTGACCAGTTGGCTGATG  
 AGTCGCTGGAAAGCACCCGTCGTATGCTGCAACTGTTGAAGAGAGTAAAGATGCTGGTATCAGGACTTT  
 GGTTATGTTGGATGAACAAGGAGAACAACCTCGATCGTGTGCAAGAAGGCATGAACCATATCAACCAAGAC  
 ATGAAGGAGGCTGAGAAAAATTTAAAAGATTTAGGAAATGCTGTGGCCTTTTCATATGCTCTTGAACA  
 AGCTTAAATCAAGTGATGCTTACAAAAAGCCTGGGGCAATAATCAGGACGGAGTGGTGGCCAGCCAGCC  
 TGCTCGTGTAGTGGACGAACGGGAGCAGATGGCCATCAGTGGCGGCTTCATCCGCAGGGTAAACAAATGAT  
 GCCCGAGAAAAATGAAATGGATGAAAACCTAGAGCAGGTGAGCGGCATCATCGGGAACCTCCGTCACATGG  
 CCCTGGATATGGCAATGAGATCGATACACAGAATCGCCAGATCGACAGGATCATGGAGAAGGCTGATTC  
 CAACAAAACCGAATTGATGAGGCCAACCAACGTGCAACAAAGATGCTGGGAAGTGGT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

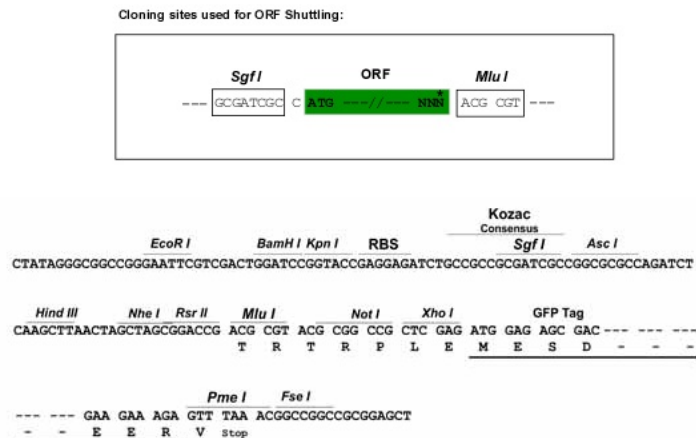
**Protein Sequence:** >RG202068 representing NM\_003081  
 Red=Cloning site Green=Tags(s)

MAEDADMRNELEEMQRRADQLADESLESTRMLQLVEESKDAGIRTLVMLDEQGEQLDRVEEGMNHINQD  
 MKEAEKNLKDGLKCCGLFICPCNKLKSSDAYKKAWGNNQDGVVASQPAPVVDEREQMAISGGFIRRVTND  
 ARENEMDENLEQVSGIIGNLRHMLDMGNEIDTQNRQIDRIMEKADSNKTRIDEANQRATKMLGSG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_003081

**ORF Size:** 618 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\\_003081.5](#)

**RefSeq Size:** 2053 bp

**RefSeq ORF:** 621 bp

**Locus ID:** 6616

**UniProt ID:** [P60880](#)

**Cytogenetics:** 20p12.2

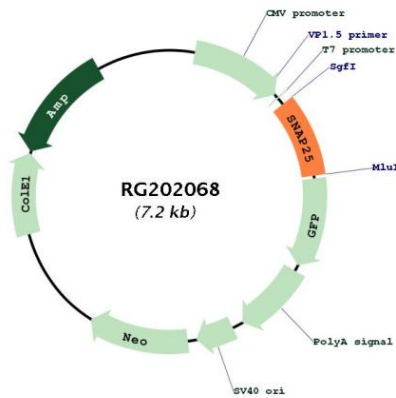
**Domains:** t\_SNARE, SNAP-25

**Protein Families:** Druggable Genome

**Protein Pathways:** SNARE interactions in vesicular transport

**Gene Summary:** Synaptic vesicle membrane docking and fusion is mediated by SNAREs (soluble N-ethylmaleimide-sensitive factor attachment protein receptors) located on the vesicle membrane (v-SNAREs) and the target membrane (t-SNAREs). The assembled v-SNARE/t-SNARE complex consists of a bundle of four helices, one of which is supplied by v-SNARE and the other three by t-SNARE. For t-SNAREs on the plasma membrane, the protein syntaxin supplies one helix and the protein encoded by this gene contributes the other two. Therefore, this gene product is a presynaptic plasma membrane protein involved in the regulation of neurotransmitter release. Two alternative transcript variants encoding different protein isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG202068