

## Product datasheet for **RN212183**

### Snap25 (NM\_030991) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Snap25 (NM\_030991) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Snap25  
**Synonyms:** SNAP-25a; SNAP-25B  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN212183 representing NM\_030991  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGGCCGAGGACGCAGACATGCGTAATGAACTGGAGGAGATGCAGAGGAGGGCTGACCAGCTGGCTGATG  
AGTCCCTGGAAAGCACCCGTCGCATGCTGCAGCTGGTGAAGAGAGTAAAGATGCTGGCATCAGGACTTT  
GGTTATGTTGGATGAGCAAGGCGAACAACCTGGAACGCATTGAGGAAGGGATGGACCAATCAATAAGGAT  
ATGAAAGAAGCAGAAAAGAATTTGACGGACCTAGGAAAATCTGCGGGCTTTGTGTGTGTCCCTGTAAACA  
AGCTTAAATCCAGTGATGCTTACAAAAAGCCTGGGGCAATAATCAGGATGGAGTAGTGGCCAGCCAGCC  
TGCCCGTGTGGTGGATGAACGGGAGCAGATGGCCATCAGTGGTGGCTTCATCCGCAGGGTAACAAACGAT  
GCCCCGGAAAAATGAAATGGATGAAAACCTAGAGCAGGTGAGCGGCATCATCGGAAACCTCCGTCATATGG  
CCCTAGACATGGGCAATGAGATTGACACCCAGAATCGCCAGATTGACAGGATCATGGAGAAGGCTGACTC  
CAACAAAACCAGAATTGATGAAGCCAACCAACGTGCAACAAAGATGCTGGGAAGTGGTTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_030991  
**Insert Size:** 621 bp



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**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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_030991.3](#), [NP\\_112253.1](#)

**RefSeq Size:** 2135 bp

**RefSeq ORF:** 621 bp

**Locus ID:** 25012

**UniProt ID:** [P60881](#)

**Cytogenetics:** 3q36

**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. It is essential for regulated exocytosis in neuronal cells. Alternative transcript variants encoding two different protein isoforms have been described for this gene. [provided by RefSeq, Jul 2012]  
Transcript Variant: This variant (3, also known as b) has an alternate in-frame exon in the coding region, compared to variant 1. The resulting isoform (b) is of the same length, but has a distinct internal segment, compared to isoform a.