

Product datasheet for **RR216043**

Snap25 (NM_001270576) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Snap25 (NM_001270576) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Snap25
Synonyms: SNAP-25a; SNAP-25B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR216043 representing NM_001270576
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGAGGACGCAGACATGCGTAATGAACTGGAGGAGATGCAGAGGAGGGCTGACCAGCTGGCTGATG
 AGTCCCTGGAAGCACCCGTCGCATGCTGCAGCTGGTGAAGAGAGTAAAGATGCTGGCATCAGGACTTT
 GGTTATGTTGGATGAGCAAGGCCAACAACCTCGATCGTGTGCAAGAAGGCATGAACCATATCAACCAAGAC
 ATGAAGGAGGCCGAGAAAAATTTAAAAGATTTAGGCAATGCTGTGGCCTTTTCATATGCTCTTGTAAACA
 AGCTTAAATCCAGTGATGCTTACAAAAAGCCTGGGGCAATAATCAGGATGGAGTAGTGCCAGCCAGCC
 TGCCCGTGTGGTGGATGAACGGGAGCAGATGGCCATCAGTGGTGGCTTCATCCGCAGGGTAACAAACGAT
 GCCCGGAAAAATGAAATGGATGAAAACCTAGAGCAGGTGAGCGGCATCATCGGAAACCTCCGTCATATGG
 CCCTAGACATGGGCAATGAGATTGACACCCAGAATCGCCAGATTGACAGGATCATGGAGAAGGCTGACTC
 CAACAAAACCGAATTGATGAAGCCAACCAACGTGCAACAAAGATGCTGGGAAGTGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR216043 representing NM_001270576
 Red=Cloning site Green=Tags(s)

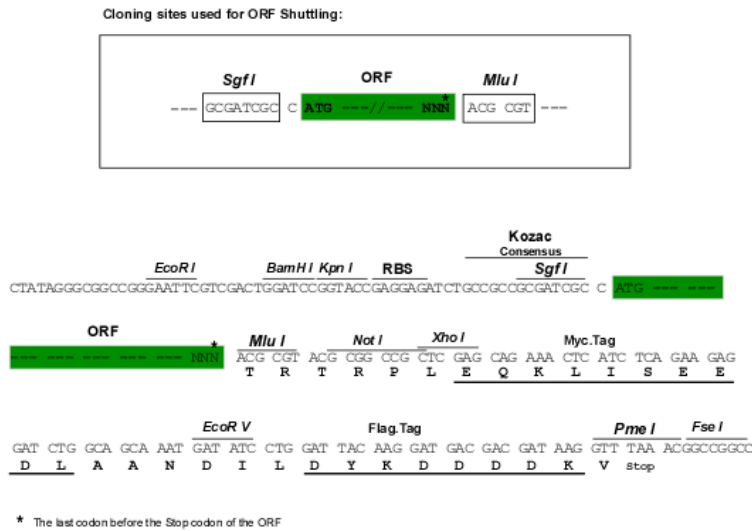
MAEDADMRNELEEMQRRADQLADESLESTRMLQLVEESKDAGIRTLVMLDEQGEQLDRVEEGMNHINQD
 MKEAEKNLKDGLKCCGLFICPCNKLKSSDAYKKAWGNQDGVVASQP PARVVDEREQMAISGGFIRRV TND
 ARENEMDENLEQVSGIIGNLRHMLDMGNEIDTQNRQIDRIMEKADSNKTRIDEANQRATKMLGSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001270576

ORF Size: 618 bp

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 or by calling 301.340.3188 option 3 for pricing and delivery.

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_001270576.1](#), [NP_001257505.1](#)

RefSeq Size: 2047 bp

RefSeq ORF: 621 bp

Locus ID: 25012

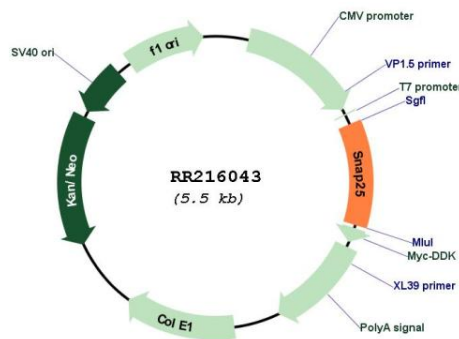
UniProt ID: [P60881](#)

Cytogenetics: 3q36

MW: 23.3 kDa

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]

Product images:



Circular map for RR216043