

Product datasheet for **RC202068**

SNAP25 (NM_003081) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SNAP25 (NM_003081) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SNAP25
Synonyms:	bA416N4.2; CMS18; dJ1068F16.2; RIC-4; RIC4; SEC9; SNAP; SNAP-25; SUP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202068 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGAAGACGCAGACATGCGCAATGAGCTGGAGGAGATGCAGCGAAGGGCTGACCAGTTGGCTGATG
 AGTCGCTGGAAAGCACCCGTCGTATGCTGCAACTGGTTGAAGAGAGTAAAGATGCTGGTATCAGGACTTT
 GGTTATGTTGGATGAACAAGGAGAACAACGATCGTGTGCAAGAAGGCATGAACCATATCAACCAAGAC
 ATGAAGGAGGCTGAGAAAAATTTAAAGATTTAGGGAAATGCTGTGGCCTTTTCATATGCTCTTGTAAACA
 AGCTTAAATCAAGTGATGCTTACAAAAAGCCTGGGGCAATAATCAGGACGGAGTGGTGGCCAGCCAGCC
 TGCTCGTGTAGTGGACGAACGGGAGCAGATGGCCATCAGTGGCGGCTTCATCCGCAGGGTAACAAATGAT
 GCCCGAGAAAAATGAAATGGATGAAAACCTAGAGCAGGTGAGCGGCATCATCGGGAACCTCCGTCACATGG
 CCCTGGATATGGGCAATGAGATCGATACACAGAATCGCCAGATCGACAGGATCATGGAGAAGGCTGATTC
 CAACAAAACCGAATTGATGAGGCCAACCAACGTGCAACAAAGATGCTGGGAAGTGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC202068 protein sequence Red=Cloning site Green=Tags(s)
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MAEDADMRNELEEMQRRADQLADESLESTRMLQLVEESKDAGIRTLVMLDEQGEQLDRVEEGMNHINQD
 MKEAEKNLKDGLKCCGLFICPCNKLKSSDAYKKAWGNQDGVVASQPARVVDEREQMAISGGFIRRVNTD
 ARENEMDENLEQVSGIIGNLRHMLDMGNEIDTQNRQIDRIMEKADSNKTRIDEANQRATKMLGSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV


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Chromatograms: https://cdn.origene.com/chromatograms/mk6283_f08.zip

Restriction Sites: SgfI-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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

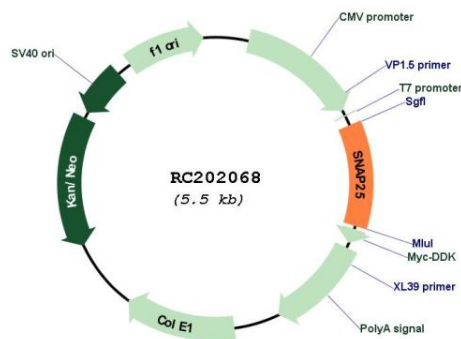
RefSeq: [NM_003081.5](#)

RefSeq Size: 2069 bp

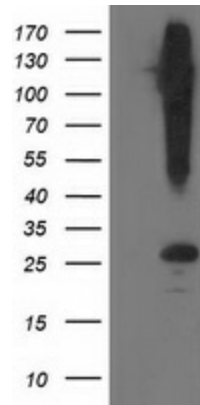
RefSeq ORF:	621 bp
Locus ID:	6616
UniProt ID:	P60880
Cytogenetics:	20p12.2
Domains:	t_SNARE, SNAP-25
Protein Families:	Druggable Genome
Protein Pathways:	SNARE interactions in vesicular transport
MW:	23.3 kDa

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 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]

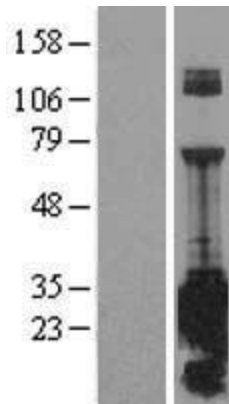
Product images:



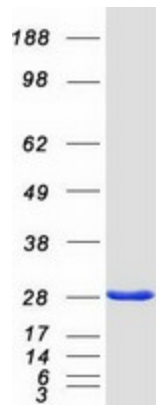
Circular map for RC202068



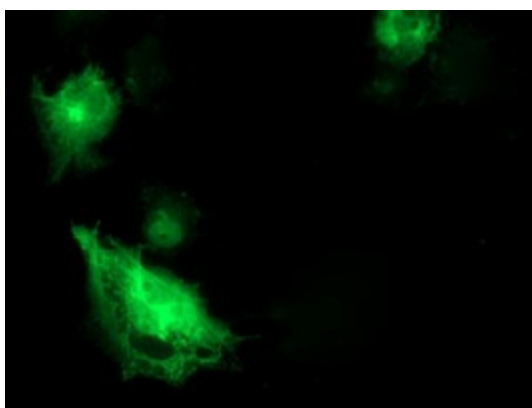
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SNAP25 (Cat# RC202068, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SNAP25 (Cat# [TA502963]). Positive lysates [LY418912] (100ug) and [LC418912] (20ug) can be purchased separately from OriGene.



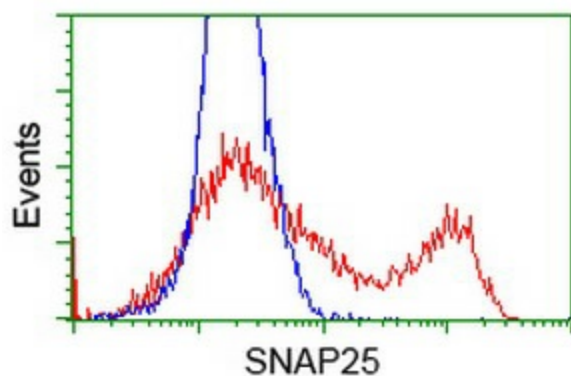
Western blot validation of overexpression lysate (Cat# [LY418912]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202068 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNAP25 protein (Cat# [TP302068]). The protein was produced from HEK293T cells transfected with SNAP25 cDNA clone (Cat# RC202068) using MegaTran 2.0 (Cat# [TT210002]).



Anti-SNAP25 mouse monoclonal antibody ([TA502963]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY SNAP25 (RC202068).



HEK293T cells transfected with either RC202068 overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-SNAP25 antibody ([TA502963]), and then analyzed by flow cytometry.