

Product datasheet for RC212596

SNAP25 (NM_130811) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SNAP25 (NM_130811) 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: >RC212596 representing NM_130811
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGAAGACGCAGACATGCGCAATGAGCTGGAGGAGATGCAGCGAAGGGCTGACCAGTTGGCTGATG
AGTCGCTGGAAAGCACCCGTCGTATGCTGCAACTGTTGAAGAGAGTAAAGATGCTGGTATCAGGACTTT
GGTTATGTTGGATGAACAAGGAGAACAACCTGGAACGCATTGAGGAAGGGATGGACCAATCAATAAGGAC
ATGAAAGAAGCAGAAAAGAATTTGACGGACCTAGGAAAATCTGCGGGCTTTGTGTGTCCCTGTAACA
AGCTTAAATCAAGTGATGCTTACAAAAAGCCTGGGGCAATAATCAGGACGGAGTGGTGGCCAGCCAGCC
TGCTCGTGTAGTGGACGAACGGGAGCAGATGGCCATCAGTGGCGGCTTCATCCGCAGGGTAAACAAATGAT
GCCCGAGAAAATGAAATGGATGAAAACCTAGAGCAGGTGAGCGGCATCATCGGGAACCTCCGTCACATGG
CCCTGGATATGGCAATGAGATCGATACACAGAATCGCCAGATCGACAGGATCATGGAGAAGGCTGATTC
CAACAAAACCAGAATTGATGAGGCCAACCAACGTGCAACAAAGATGCTGGGAAGTGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212596 representing NM_130811
 Red=Cloning site Green=Tags(s)

MAEDADMRNELEEMQRRADQLADESLESTRMLQLVEESKDAGIRTLVMLDEQGEQLERIEEGMDQINKD
MKEAEKNLTDLGKFCGLCVPCPNLKSSDAYKKAWGNQDGVVASQP PARVVDEREQMAISGGFIRRVND
ARENEMDENLEQVSGIIGNLRHMLDMGNEIDTQNRQIDRIMEKADSNKTRIDEANQRATKMLGSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



[View online »](#)

Chromatograms: https://cdn.origene.com/chromatograms/mg4236_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_130811

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.

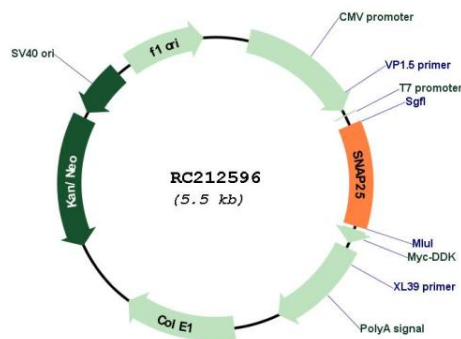
RefSeq: [NM_130811.4](#)

RefSeq Size: 2053 bp

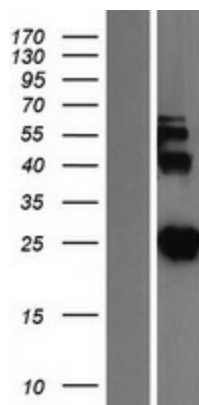
RefSeq ORF: 621 bp
Locus ID: 6616
UniProt ID: [P60880](#)
Cytogenetics: 20p12.2
Domains: t_SNARE, SNAP-25
Protein Families: Druggable Genome
Protein Pathways: SNARE interactions in vesicular transport
MW: 23.1 kDa

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]

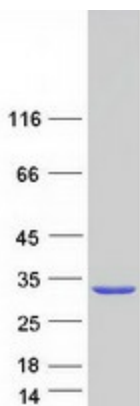
Product images:



Circular map for RC212596



Western blot validation of overexpression lysate (Cat# [LY408904]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212596 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNAP25 protein (Cat# [TP312596]). The protein was produced from HEK293T cells transfected with SNAP25 cDNA clone (Cat# RC212596) using MegaTran 2.0 (Cat# [TT210002]).