

Product datasheet for RC201596

SNAP23 (NM_003825) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SNAP23 (NM_003825) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SNAP23
Synonyms: HsT17016; SNAP-23; SNAP23A; SNAP23B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201596 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATAATCTGTCATCAGAAGAAATCAACAGAGAGCTCACCAGATTACTGATGAGTCTCTGGAAAGTA
CGAGGAGAATCCTGGGTTTAGCCATTGAGTCTCAGGATGCAGGAATCAAGACCATCACTATGCTGGATGA
ACAAAAGGAACAATAACCGCATAGAAGAAGGCTTGACCAAATAAATAAGGACATGAGAGAGACAGAG
AAGACTTTAACAGAACTCAACAAATGCTGTGGCCTTTGTGTCTGCCATGTAATAGAACAAGAAGCTTTG
AGTCTGGCAAGGCTTATAAGACAACATGGGGAGATGGTGGAGAAAACCTCACCTTGCAATGTAGTATCTAA
ACAGCCAGGCCCGGTGACAAATGGTCAGCTTCAGCAACCAACAACGGGAGCAGCCAGTGGTGGATACATT
AAACGCATAACTAATGATGCCAGAGAAGATGAAATGGAAGAGAACCTGACTCAAGTGGGCAGTATCCTGG
GAAATCTAAAAGACATGGCCCTGAACATAGGCAATGAGATTGATGCTCAAATCCACAAATAAACGGAAT
CACAGACAAGGCTGACACCAACAGAGATCGTATTGATATTGCCAATGCCAGAGCAAAGAACTCATTGAC
AGC

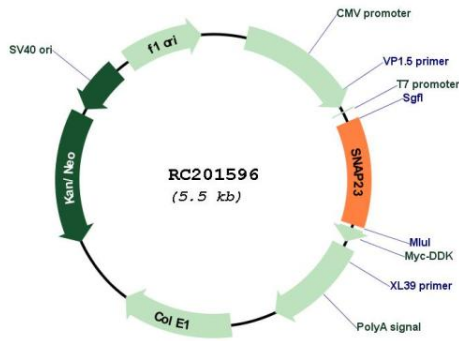
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



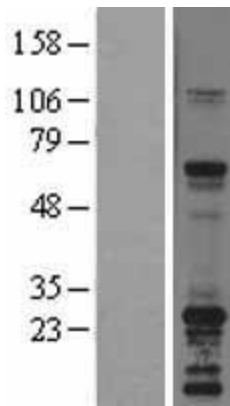
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Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex 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_003825.4
RefSeq Size:	2650 bp
RefSeq ORF:	636 bp
Locus ID:	8773
UniProt ID:	O00161
Cytogenetics:	15q15.1-q15.2
Domains:	t_SNARE, SNAP-25
Protein Families:	Druggable Genome
Protein Pathways:	SNARE interactions in vesicular transport
MW:	23.4 kDa
Gene Summary:	<p>Specificity of vesicular transport is regulated, in part, by the interaction of a vesicle-associated membrane protein termed synaptobrevin/VAMP with a target compartment membrane protein termed syntaxin. These proteins, together with SNAP25 (synaptosome-associated protein of 25 kDa), form a complex which serves as a binding site for the general membrane fusion machinery. Synaptobrevin/VAMP and syntaxin are believed to be involved in vesicular transport in most, if not all cells, while SNAP25 is present almost exclusively in the brain, suggesting that a ubiquitously expressed homolog of SNAP25 exists to facilitate transport vesicle/target membrane fusion in other tissues. The protein encoded by this gene is structurally and functionally similar to SNAP25 and binds tightly to multiple syntaxins and synaptobrevins/VAMPs. It is an essential component of the high affinity receptor for the general membrane fusion machinery and is an important regulator of transport vesicle docking and fusion. Two alternative transcript variants encoding different protein isoforms have been described for this gene. [provided by RefSeq, Jul 2008]</p>

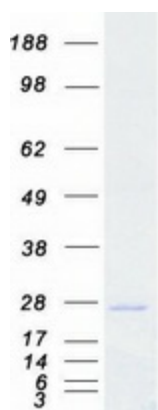
Product images:



Circular map for RC201596



Western blot validation of overexpression lysate (Cat# [LY401266]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201596 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNAP23 protein (Cat# [TP301596]). The protein was produced from HEK293T cells transfected with SNAP23 cDNA clone (Cat# RC201596) using MegaTran 2.0 (Cat# [TT210002]).