

## Product datasheet for **SC111720**

### SNAP23 (NM\_003825) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SNAP23 (NM_003825) Human Untagged Clone
Tag:	Tag Free
Symbol:	SNAP23
Synonyms:	HsT17016; SNAP-23; SNAP23A; SNAP23B
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111720 sequence for NM_003825 edited (data generated by NextGen Sequencing)

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ATGGATAATCTGTCATCAGAAGAAATTCACAGAGAGCTCACCAGATTACTGATGAGTCT
CTGGAAAAGTACGAGGAGAATCCTGGGTTTAGCCATTGAGTCTCAGGATGCAGGAATCAAG
ACCATCACTATGCTGGATGAACAAAAGGAACAATAAACCCGCATAGAAGAAGGCTTGGAC
CAAATAAATAAGGACATGAGAGAGACAGAGAAGACTTTAACAGAACTCAACAAATGCTGT
GGCCTTTGTGCTGCCCATGTAATAGAACAAAGAAGAACTTTGAGTCTGGCAAGGCTTATAAG
ACAACATGGGGAGATGGTGGAGAAAACACCTTGCAATGTAGTATCTAAACAGCCAGGC
CCGGTGACAAATGGTCAGCTTCAGCAACCAACAACGGGAGCAGCCAGTGGTGGATACATT
AAACGCATAACTAATGATGCCAGAGAAGATGAAATGGAAGAGAACCTGACTCAAGTGGGC
AGTATCCTGGGAAATCTAAAAGACATGGCCCTGAACATAGGCAATGAGATTGATGCTCAA
AATCCACAAATAAACGAATCACAGACAAGGCTGACACCAACAGAGATCGTATTGATATT
GCCAATGCCAGAGCAAAGAAACTCATTGACAGCTAA
```

Clone variation with respect to NM\_003825.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_003825 unedited            GTATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCGAGTTGCCGCCGAGAG            GGAGTGGCCTCGCCCGCTTGAGTTTTGATTCATCATGGATAATCTGTCATCAGAAGAAAT            TCAACAGAGAGCTCACCAGATTACTGATGAGTCTCTGGAAAGTACGAGGAGAATCCTGGG            TTTAGCCATTGAGTCTCAGGATGCAGGAATCAAGACCATCACTATGCTGGATGAACAAAA            GGAACAAGACTAAACCCGATAGAAGAAGGCTTGGACCAATAAATAAGGACATGAGAGAGAC            AGAGAAGACTTTAACAGAACTCAACAAATGCTGTGGCCTTTGTGTCTGCCCATGTAATAG            AACAAAGAACTTTGAGTCTGGCAAGGCTTATAAGACAACATGGGGAGATGGTGGAGAAAA            CTCACCTTGCAATGTAGTATCTAAACAGCCAGGCCCGGTGACAAATGGTCAGCTTCAGCA            ACCAACACGGGAGCAGCCAGTGGTGGATACATTAACGCATAACTAATGATGCCAGAGA            AGATGAAATGGAAGAGAACCTGACTCAAGTGGGCAGTATCCTGGGAAATCTAAAAGACAT            GGCCCTGAACATAGGCAATGAGATTGATGCTCAAAATCCACAAATAAACGAATCACAGA            CAAGGCTGACACCAACAGAGATCGTATTGATATTGCCAATGCCAGAGCATAGAACTATT            GACAGCTAAAGCTACTGCTGGTCTTCTTATCATTATTACCTCCGTACCTCCTCCTTG            CAAGTTATTACCTTTTCAGAGTTAAGTTTTCCGGTTCACGCTCCTCCTATCGGCAGATA            TATTGAAGAAAGGCCAGAGCAGTCCCAGCTCCTTTTTTTTTGTTTCTGTTGAGGCCGCC            CTGCCTGCCTTCTANATTTNCTTCCCATCCACCCTAAATGGTTTC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_003825 unedited            GGGGGGCACCCNCCNCTCTTTNNANNNAATCTTGNACGGCCGCATTCTANATCGA            GTTTTTTTTTTTTTTTTTTGTAGTTAAAAAATAATTGTAAGGATCAAGCAGTGGTTAT            TGGTGAACCAATACACACTGACAGCTTTGAAGTGTCAGATGCTAATTTTAAAAATAAT            GTGACAAATACCAATCAGATGTTCAACACTTTTCAGGATCCACATCAACTTGATTATG            GACATAGTTCAATACACAAGGTAAGAGAAAGAGTGTGTAATCACAATAATTAACCAG            AGGCATAATTTTTCAAATAATTTTTAGTTACAGAATAAATTTCTAACTTTTTAAAGTCTA            AAGCTACATAAACTCAAAGCAATCTATTTTTCTACCTGAGGTCAAAATGACTTTCTTTT            TTCCTAACTAAACATAATTTAGCATTGAGGTAATCTGAATTCATGTGGTATGCTTTG            TCAAACTTTTCCAAAAATTTTAAAGCCCTGCTTTAGAGAGAAATCTCATGTTACACATA            TATATTTACATATTTTTTNTCAAAGACTAATGANCATGTATGATGTTAATAGGCCTGTA            ATGGAACCATGATACTACTAATAATATGAAATANAAAGCCACTCATTTATATAAAGTGTT            CCTGAATGGTGCANNTAGAAATGGGATCACAGAATTATGTACATATATGAAATCACTTAG            AGTCAGAAATAAGCTCACTTTAAGAAAACTCAGCCAGGCACAGTGGCTACGCCTTGATC            CAGTACTTTGGAAGGCCAGGCCGTTGATCACGACGTCAGGAGTCCACGACCACTTGACA            TGGTGAACCCTGTTTTTACTAAAAAACAAAAATTACCCGACGGTGTGGACCACGCCTGTG            AATCCACCTCCTCAGGAGGCAGGCAGAAAAATTGCTGTGACCAGAGGCGGAGTTCAATG            ACCCCAATCCCCATGGCCTCCAAACTGACAAAGAGGGAAACTTGACTCCN</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003825
<b>Insert Size:</b>	2390 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_003825.2](#), [NP\\_003816.2](#)

**RefSeq Size:** 2307 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

**Gene Summary:** 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]  
Transcript Variant: This variant (1) is the longer transcript, containing eight exons and encoding the full-length isoform (SNAP23A).