

## Product datasheet for **SC322216**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for SC322216  
 CCAGGTCCGGTGTGGGGTGTCCGAGTTGCCGCCGGAGAGGAGTGGCCTCGCCCGCTTGA  
 GTTTTGATTATCATGGATAATCTGTTCATCAGAAGAAATCAACAGAGAGCTCACCAGAT  
 TACTGATGAGTCTCTGGAAAGTACGAGGAGAATCCTGGGTTTAGCCATTGAGTCTCAGGA  
 TGCAGGAATCAAGACCATCACTATGCTGGATGAACAAAAGGAACAACAAACCCGATAGA  
 AGAAGGCTTGGACCAAATAAATAAGGACATGAGAGAGACAGAGAAGACTTTAACGAACT  
 CAACAAATGCTGTGGCCTTTGTGTCTGCCATGTAAATAGAACAAGAAGAACTTTGAGTCTGG  
 CAAGGCTTATAAGACAACATGGGGAGATGGTGGAGAAAACCTCACCTTGCAATGTAGTATC  
 TAAACAGCCAGGCCCGGTGACAAATGGTCAGCTTCAGCAACCAACAACGGGAGCAGCCAG  
 TGGTGGATACATTAACGCATAACTAATGATGCCAGAGAAGATGAAATGGAAGAGAACCT  
 GACTCAAGTGGGAGTATCCTGGGAAATCTAAAAGACATGGCCCTGAACATAGGCAATGA  
 GATTGATGCTCAAAATCCACAAATAAACGAATCACAGACAAGGCTGACACCAACAGAGA  
 TCGTATTGATATTGCCAATGCCAGAGCAAAGAACTCATTGACAGCTAAAGCTACTGCTG  
 TTCTTCTTATCATTTATTCACCTCCGTAGCTCCTCCTGAAAGTTATTACCTTTTCAGA  
 GTTTAAGTTTTTCGGTCCACGCTCTTCTAATTGGGAGATAATATGGAAGAAGGGCCAGAG  
 CAGTTACAGCCCTCTTCTTTTTTGTCTGTTGAGGGCCGACTGCTGCTCTGCCTTCC  
 TTCTAGTATTTTCTTCTCAATTCATACGCTTAGATTGGTTTTTATATGTCATGTTTAGT  
 GTTTTCATCCTCCTCATATACTTCAGCAGGTTCTTTTGCTTTCAAGATTTGGAAGCATTG  
 CCAAGACAGCCATGAAGAAGGAAGCTGTAGAGGTGTTTTTGTGTTGTTTATTTTTGC  
 TTTTGTGGTTGAGGGAAGGACAAGAGATAAGAGGTTGTTACCTCAGTAAAAACCTTCAGG  
 CCACAAAGCAAAAAGTTGCATAGCCACAACGAAGATCTAGTTGGATATAGTTTTTGATTT  
 AAGTTGCAGTTATAGCCAATTTAGGCTAATGCTTGGTTTTGGAGCTTTTATACACAACGT  
 TTTTGTAGGCATCACAGTTTTGCAACCTCTGCTCCAAGAGAAAAATAGAATGAGTTTTT  
 CTTTCTTTTTTTTTTTTTTTGGAGTCAGAGTCTCGCTCTCTTGTCCAGGCTGGAGTGCAA  
 TAGCGCGATCTGGGCTCACTGCAACCTCCGCTCCCTGGTTCAAGCAATTCTCCTGCCTT  
 GCCTCCTGAGTAGCTGGGATTACAGGCGTGTGTACCACGCTCGGCTAATTTTTGTATTT  
 TTAGTAGAGACAGGGTTTACCATTGCAAGCTGGTCTTGGACTCCTGACGTCGTGATCCA  
 CCCGCCTTGGCCTCCCAAAGTACTGGGATTACAGGCGTGAGCCACTGTGCCTGGCTGAGT  
 TTTCTTAAAGTGAGCTTAATTTCTGAACCTTAGTGATTCATATATGTACATAAATCTGT  
 GATCCCATTTCTATTGCACCATTGAGGAACACTTTATATAAATGAGTGGCTTTTTATTT  
 CATATTATTAGTAGTATCATGGTCCATTACAGGCCTATTAACATCATACATTGTCATTA  
 GTCTTTGAAGAAAAAATATGTAATATATATGTGTAACATGAGAAATTTCTCTCTAAAGCA  
 GGGCTTAAAAATTTTTGGAAAAGTTTGACAAAAGCATACCACATGAATTCAGATTTACCTC  
 AATGCTAAGAATTATGTTTAGTTAGGAAAAAGGAAAGTCATTTTGACCTCAGGTAGAAAA  
 ATAGATTGCTTTGAGTTTTATGTAGCTTTAGACTTTAAAAAGTTAGAATTTATTCTGTAA  
 CTAAAAATTTTGA AAAAATATGCCTCTGGTTAATTATTGGTGATTACACACTCTTT  
 CTCTTACCCTTGTGATTGAACTATGTCCATAATCAAGTTGATGTGGATCCTGAAAAGTG  
 TTATGAACATCTGATTGGTATTTGTACATTTATTTAAAAATAGCATCTGAACACTTCA  
 AAGCTGTCAGTGTGATTGGTTTTACCAATAACCACTGCTTGATCCTTACAATTAATTT  
 TTTAACTAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_003825

**OTI Disclaimer:** 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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003825.2</a> , <a href="#">NP_003816.2</a>
<b>RefSeq Size:</b>	2307 bp
<b>RefSeq ORF:</b>	636 bp
<b>Locus ID:</b>	8773
<b>UniProt ID:</b>	<a href="#">O00161</a>
<b>Cytogenetics:</b>	15q15.1-q15.2
<b>Domains:</b>	t_SNARE, SNAP-25
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	SNARE interactions in vesicular transport
<b>Gene Summary:</b>	<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> <p>Transcript Variant: This variant (1) is the longer transcript, containing eight exons and encoding the full-length isoform (SNAP23A).</p>