

Product datasheet for **SC109782**

SNAP25 (NM_130811) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SNAP25 (NM_130811) Human Untagged Clone
Tag:	Tag Free
Symbol:	SNAP25
Synonyms:	bA416N4.2; CMS18; dj1068F16.2; RIC-4; RIC4; SEC9; SNAP; SNAP-25; SUP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_130811 edited
 GAATTCGGCACGAGGGAACAACCCCTCCCAGAGAAGCCAGGTCCAGAGCCAAACCCGTC
 ACTGACCCCCAGCCAGGCGCCAGCCACTCCCACCGTACCATGGCCGAAGACGCAG
 ACATGCGCAATGAGCTGGAGGAGATGCAGCGAAGGGCTGACCAGTTGGCTGATGAGTCGC
 TGGAAAGCACCCGTCGTATGCTGCAACTGGTTGAAGAGAGTAAAGATGCTGGTATCAGGA
 CTTTGGTTATGTTGGATGAACAAGGAGAACAACCGATCGTGTGCGAAGAAGGCATGAACC
 ATATCAACCAAGACATGAAGGAGGCTGAGAAAAATTTAAAAGATTTAGGGAAATGCTGTG
 GCCTTTTCATATGTCCTTGTAAACAAGCTTAAATCAAGTGATGCTTACAAAAAAGCCTGGG
 GCAATAATCAGGACGGAGTGGTGCCAGCCAGCCTGCTCGTGTAGTGGACGAACGGGAGC
 AGATGGCCATCAGTGGCGGCTTCATCCGCAGGGTAACAAATGATGCCCGAGAAAAAGAAA
 TGGATGAAAACTAGAGCAGGTGAGCGGCATCATCGGGAACCTCCGTCACATGGCCCTGG
 ATATGGGCAATGAGATCGATACACAGAATCGCCAGATCGACAGGATCATGGAGAAGGCTG
 ATTCCAACAAAACCAGAATTGATGAGGCCAACCAACGTGCAACAAAGATGCTGGGAAGTG
 GTTAAGTGTGCCACCCGTGTTCTCTCCAATGCTGTGGGCAAGATAGCTCCTTCATG
 CTTTTCTCATGGTATTATCTAGTAGGTCTGCACACATAACACACATCAGTCCACCCCAT
 TGTGAATGTTGCTGTGCATCTGTCACTTCCAACAATACTTTGTGTCTTTTGTCT
 CTCTGGTCTCTTTCTTTCCAAAGTTGTACATAGTGGTCATTTGGTGGCTCTAACTCCT
 TGATGCTCTGAGTTTCATTTTTCATTTTCTCTCCTCGGTGGCATTGCTGAATAACAACA
 ATTTAGGAATGCTCAATGTGCTGTTGATTTTCAATCCACAGTATTGTTCTTGTAAAAC
 TGTGACATTCCACAGAGTTACTGCCACGGTCTTTGAGTGTGAGGCTCTGAATCTCTCAA
 AATGTGCCGTCTTTGGTTCTCATGGCTGTTATCTGTCTTTATGATTTTCATGATTAGACA
 AGAACTAAATAGATTTTTAGATTCCTACTTAAACAAAAACTTTCCATGACAGTAGCATAAC
 TGATGAGACAACACACACACACAAAAACAACGCAACAACAACAGAACAACAACAAGC
 ATGCTCAGTATTGAGACTGTCAAGATTAAGTTATACCAGCAAAAAGTGCAGTAGTGCA
 CTTTTTCTGTCAATATATAGAGACTTCTAAATCATAATCATCTTTTTTAAAAAAAAG
 AATTTTAAAAAAGATGGATTTGACACACTACCATTTAATCATTTCACAGCAAAATATATG
 TTTGGCTGAAATTATGTCAAATGGATGTAATATAGGGTTTGTGTTGCTGTTTTGATGGCT
 ACGTTTTGGAGAGCAATCTTGTGTGAAACAGTGTGGATGTAATTTTATAAGGCTGA
 CTCTTACTAACCACCATTTCCCCTGTGGTTTGTATCAGTACAATTCTTTGTTGCTTAAT
 CTAGAGCTATGCACCAAAATTGCTGAGATGTTTAGTAGCTGATAAAGAAACCTTTTAAA
 AAAATAATATAAATGAATGAAATATAAACTGTGAGATAAATATCATTATAGCATGTAATA
 TTAATTCCTCCTGTCTCCTCTGTCAAGTTGTGAAGTATTGACATTTTGTAGCTAGTTT
 AAAATTATTAATAATATAGACTCCAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence: >OriGene 5' read for NM_130811 unedited
 TTCGGATTTTGTAAATACGACTCACTATAGGGCGCCGCGAATTCGCCGAGGGAACACAAC
 CCTCCCGAGAAGCCAGGTCCAGAGCCAAACCCGTCAGTACCCCCAGCCAGGCGCCC
 AGCCACTCCCCACCGCTACCATGGCCGAAGACGCAGACATGCGCAATGAGCTGGAGGAGA
 TGCAGCGAAGGGCTGACCAGTTGGCTGATGAGTCGCTGGAAAGCACCCGTCGTATGCTGC
 AACTGGTTGAAGAGAGTAAAGATGCTGGTATCAGGACTTTGGTTATGTTGGATGAACAAG
 GAGAACAACCTCGATCGTGTGCGAAGAAGGCATGAACCATATCAACCAAGACATGAAGGAGG
 CTGAGAAAAATTTAAAAGATTTAGGGAAATGCTGTGGCCTTTTCATATGCTCTTGAACA
 AGCTTAAATCAAGTGATGCTTACAAAAAAGCCTGGGGCAATAATCAGGACGGAGTGGTGG
 CCAGCCAGCCTGCTCGTGTAGTGGACGAACGGGAGCAGATGGCCATCAGTGGCGGCTTCA
 TCCGCAGGGTAACAAATGATGCCCGAGAAAATGAAATGGATGAAAACCTAGAGCAGGTGA
 GCGGCATCATCGGGAACCTCCGTCACATGGCCCTGGATATGGGCAATGAGATCGATACAC
 AGAATCGCCAGATCGACAGGATCATGGAGAAGGCTGATTTCAACAAAACAGAAATTGATG
 AGGCCAACCAACGTGCAACANAGATGCTGGGAAGCGGCTAAGTGTGCCACCCCGTGTTC
 TCCTCAAATGCCTGTGCGGCAGATAGCTCCTTCATGCCTTTCCTCATGGATTATCTAGNA
 GGGTCTGCCACATAACACCACATAGTCCCACCCATTGTGAAAGTTGCTGTGCATCC
 GTCAGCTTCCACCATACTTGTGGGCTTTTGTTC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_130811 unedited GCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTGGAGTCTATAATTTTAAATAATT TTAAACTAGCTACAAAATGTCAATCACTTCACAACTGACAGAGGAGACAGGAGGAATTT AATATTACATGCTATAATGATATTTATCTCACAGTTTATATTTTCATTCATTTATATTATT TTTTAAAAGGTTCTTTATCAGCTACTAAACATCTCAGCAATTTGGTGTGCATAGCTCT AGATTAAGCAACAAGAATTGTAAGTATAACAAACCACAGGGAAATGGTGGTTAGTAAG AGTCAGCCTTATAAAATTTACATCCACTGTTTCACAGCAAGATTGCTCTCCAAAAC GTAGCCATCAAAAGCAGCAAAACAACCCTATATTACATCCATTTGACATAATTTAGCCA AACATATATTTTCTGGAATGATTAAATGGTGTGTTGCAATCCATCTTTTTAAAA TTCTTTTTTTTTAAAAAGGATGATTATGATTTAGAAAGTCTCTATATATTGACAGGAAAA AGTGACACTACTGCACTTTTGTGGTATAACTTAATCTTGACAGTGTCTCAACTGAGC ATGCTTTGTTGNTGNTCTGTTGTTGTTGCTGTTGNTTTGTGTGTGTGTGTTGGCTCAT CAGTATGCTACTGTCATGAAAGTTTTTGTAAAGTANGAATCTAAAATCTATTTAGCTCT CATGCATAAATGCATAAATCACATCACTTTTTAGTGCATGCCTGTTATGTATTNCCCATT GCCTATCCATGAATCCTAAGACGGTAACAGCCCTGAGGAACCAAGACGCCCATTTTGGAG ATTCAGACCTGACCTCAAAGACCGTGACGTACCTGTGAATGTACAGTTTACAGACCATA CGTGGATGAAAGATCACACCATGAGCATCTATTGTGTATTCCCAAGCCCGNGAAAAAG AAATGACCTCGCTCAGG
Restriction Sites:	NotI-NotI
ACCN:	NM_130811
Insert Size:	1960 bp
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).
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:	<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.
RefSeq:	<u>NM_130811.1</u> , <u>NP_570824.1</u>
RefSeq Size:	2053 bp
RefSeq ORF:	621 bp
Locus ID:	6616
UniProt ID:	<u>P60880</u>
Cytogenetics:	20p12.2
Domains:	t_SNARE, SNAP-25

Protein Families: Druggable Genome

Protein Pathways: SNARE interactions in vesicular transport

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]
Transcript Variant: This variant (2) contains an alternate exon 5 as compared to transcript variant 1. This results in an isoform (SNAP25B) that is the same length, and contains the same N- and C-termini as isoform SNAP25A, but has 9 aa differences internally.