

Product datasheet for **SC111689**

SNAP25 (NM_003081) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | SNAP25 (NM_003081) 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:

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>OriGene sequence for NM_003081 edited
GAATTCGGCACGAGGCTCGTGCCGAATTCGGCACGAGGGGAGGTCAGGCGCTGTCTTTC
CTTCCCTCCCTGCTCGGCGGCTCCACCACAGTTGCAACCTGCAGAGGCCCGGAGAACACA
ACCCTCCCAGAGAGCCAGGTCAGAGCCAAACCCGCTACTGACCCCCAGCCAGGCGC
CCAGCCACTCCCACCGTACCATGGCCGAAAGACGACAGACATGCGCAATGAGCTGGAGGA
GATGCAGCGAAGGGCTGACCAGTTGGCTGATGAGTCGCTGGAAAGCACCCGTCGTATGCT
GCAACTGGTTGAAGAGAGTAAAGATGCTGGTATCAGGACTTTGGTTATGTTGGATGAACA
AGGAGAACAACCTGGAACGCATTGAGGAAGGGATGGACCAATCAATAAGGACATGAAAGA
AGCAGAAAAAATAATTTGACGGACCTAGGAAAAATTCTGCGGGCTTTGTGTGTCCCTGTAA
CAAGCTTAAATCAAGTATGCTTACAAAAAGCCTGGGGCAATAATCAGGACGGAGTGGT
GGCCAGCCAGCCTGCTCGTGTAGTGGACGAACGGGAGCAGATGGCCATCAGTGGCGGCTT
CATCCGACGGGTAAACAATGATGCCCGAGAAAATGAAATGGATGAAAACCTAGAGCAGGT
GAGCGGCATCATCGGAACCTCCGTCACATGGCCCTGGATATGGGCAATGAGATCGATAC
ACAGAATCGCCAGATCGACAGGATCATGGAGAAGGCTGATCCAACAAAACAGAAATTGA
TGAGGCCAACCAACGTGCAACAAAGATGCTGGGAAAGTGGTTAAGTGTGCCACCCGTTT
CTCCTCCAAATGCTGTCGGGCAAGATAGCTCCTTCATGCTTTTTCATGGTATTATCTAG
TAGGTCTGCACACATAACACACATCAGTCCACCCCAATTGTGAATGTTGTCTGTGTCAT
CTGTACAGTTCCTCAACAATACTTTGTGTCTTTTGTCTCTTGGTCTCTTTCTTTCCAA
AGGTTGTACATAGTGGTCATTTGGTGGCTCTAACTCCTTGATGTCCTGAGTTTCATTTTT
CATTTTCTCTCCGCGGTCATTTGGTGAATAACAACAATTTAGGAATGCTCAATGTGCT
GTTGATTCTTTCATCCACAGTATTGTTCTTGAAAACGTGACATTCCACAGAGTACT
GCCACGGTCCTTTGAGTGTGAGGCTCTGAATCTCTCAAAATGTGCCGCTTTGGTTCCCTC
ATGGCTGTTATCTGTCTTTATGATTTTCATGATTAGACAATGTTGGAATTAATAACAGGCA
TTGCACTAAAAGTATGATGATTTATGCATTTATGCATGAGAACTAAATAGATTTTAGAT
TCTACTTAAACAAAACTTTCCATGACAGTAGCATACTGATGAGACAACACACACACAC
ACAAAACAACAGCAACAACAACAGAACAACAACAAGCATGCTCAGTATTGAGACTGT
CAAGATTAAGTTATACCAGCAAAAGTGCAGTAGTGACTTTTTTTCCTGTCAATATATA
GAGACTTCTAAATCATAATCATCTTTTTTAAAAAAAAGAATTTAAAAAAGATGGATTT
GACACACTCACCATTTAATCATTCCAGCAAAATATATGTTTGGCTGAAATTAATGTCAA
TGGATGTAATATAGGTTTGTGTGCTGTTTTGATGGCTACGTTTTGGAGAGAGCAATCT
TGCTGTGAAACAGTGTGGATGTAATTTTATAAGGCTGACTCTTACTAACCACCATTTCC
CCTGTGGTTTGTATCAGTACAATCCTTTGTTGCTTAATCTAGAGCTATGCACACCAAT
TGCTGAGATGTTAGTAGCTGATAAAGAAACCTTTTAAAAAATAATATAAATGAATGAA
ATATAAAGTGTGAGATAAATATCATTATAGCATGTAATATTAATTCCTCCTGTCTCCTC
TGTGAGTTTGTGAAAGTATTGACATTTTGTAGCTAGTTTAAAAATTATAAAAATTATAGA
CTCCAAAAAAAAAAAAAAAAAACTCGAC
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_003081 unedited</p> <pre>GGTAAATTTTGTATACGACTCATATAGGGCGGCCGCAATTCGCACGAGGCCTCGTGCCG AATTCGGCAGCAGGGGAGGTCAGGCGCTGTCTTTCCTTCCCTCCCTGCTCGGCGGCTCCA CCACAGTTGCAACCTGCAGAGGCCCGGAGAACAACCAACCTCCCGAGAAGCCCAGGTCCAG AGCCAAACCCGCTACTGACCCCCAGCCAGGCGCCAGCCACTCCCCACCGTACCATG GCCGAAGACGCAGACATGCGCAATGAGCTGGAGGAGATGCAGCGAAGGGCTGACCAGTTG GCTGATGAGTCGCTGAAAGACCCCGTGTATGCTGCAACTGGTTGAAGAGAGTAAAGAT GCTGGTATCAGGACTTTGGTTATGTTGGATGAACAAGGAGAACAACCTGGAACGCATTGAG GAAGGGATGGACCAATCAATAAGGACATGAAAGAAGCAGAAAAGAATTTGACGGACCTA GGAAAATTCTGCGGGCTTNTGTGTGTGTCCCTGTAACAAGCTTAAATCAAGTGATGCTTA CAAAAAAGCCTGGGGCAATAATCAGGAACGGAGTGGTGGCCAGCCAGCCTGGCTCGTGTA GTGGACGAACGGGAGCAGATGGCCATCAGTGGCGGCTTCATCCGCAGGTAACAAATGAT GCCCGAGAAATGAAATGGATGAAACCTANAGCANGTGAGCGGCATATCGGGAACCTNCG TACATGGCCCTGGATATGGGCATGGANATCGATCACAGAATCGCCAGATGAACAGGATCA TGGGGAAGCTTGATTCAACAAACCGAATGATGAGGCAACCCACGGCACAAATGCTGGGAT GGGTTAATGTGGCCCCCGGTTTTCTCCAAGAGGTGCGCGAGAAAACCTTCTGCTTTT</pre> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_003081 unedited</p> <pre>TGGCAACTTCCAGGGCCGNAAAGCACTGGGGAGGGTTCACAGGGATGCCACCCGGGATC TGTTCCAGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTT TTGGAGTCTATAATTTTTAATAATTTTAACTAGCTACAAAATGTCAATCACTTCACAAA CTGACAGAGGAGACAGGAGGAATTTAATATTACATGCTATAATGATATTTATCTCACAGT TTATATTTCAATCATTTATATTATTTTTTAAAAGGTTTCTTTATCAGCTACTAAACATC TCAGCAATTTGGTGTGCATAGCTCTAGATTAAGCAACAAAGAATTGTAAGTATAACAAAC CACAGGGGAAATGGTGGTTAGTAAGAGTCAGCCTATAAAAATTTACATCCCACTGTTTC ACAGCAAGATTGCTCTCTCCAAAACGTAGCCATCAAAAGCAGCAAAACAAACCTATATTA CATCCATTTGACATAATTTACAGCAAACATATATTTTGTGGAATGATTAATGGTGAN GTGTGTCAAATCCATCTTTTTTAAAATCTTTTTTTTTAAAAAAGGATGATTATNGATTTA AAAGTCTCTATATATTGACAGGAAAAAAGTGACACTACTGCACCTTTTGTGGTATAACT TAATCTTGACAGTGTCTCATACTGAGCTGCTTTGNNNTGTGTCTGNNNTGTGTGCCTGTG GTTTTGGGGGNGNGGGTTGCTCATCAGATGCTACTGCATGGAAAAGTTTTGGTTAAGT AGGATCTAAAATCTATTTAGTTCTCATGCTAATGCATATCACATCCTTTTGTGCAAGGC TGTATATAATTCCCATGNCTAATCTGAATCTAAGACGATAA</pre> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_003081 |
| Insert Size: | 2040 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). |

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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. |
| RefSeq: | NM_003081.2 , NP_003072.2 |
| 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 |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (1) contains 8 exons and encodes isoform SNAP25A.</p> |