

## Product datasheet for **SC108055**

### SNAPIN (NM\_012437) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SNAPIN (NM_012437) Human Untagged Clone
Tag:	Tag Free
Symbol:	SNAPIN
Synonyms:	BLOC1S7; BLOS7; BORCS3; SNAPAP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108055 sequence for NM_012437 edited (data generated by NextGen Sequencing) ATGGCGGGGGCTGGTTCGCCGCTGTATCGGGGCAGGGACCCCGGTGGCGGGGCCACA GGCCGCGACCTTTTCGCCGAAGGCTGCTGGAGTTCCTGCGACCCGCTGTGCAGCAGCTC GACTCTCACGTACACGCCGTACAGAGAGCCAGGTAGAGCTCCGGGAACAATTGACAAC CTAGCCACAGAACTGTGCCGCATAAATGAGGATCAGAAGGTGGCCCTGGATCTTGACCCC TATGTTAAGAAGCTACTTAATGCCCGGCGACGCGTTGTCTTGTTAACAACATTCTACAG AATGCTCAGGAACGACTGAGACGGCTAAACCACAGTGTGCCAAGGAAACAGCCCGCAGG AGAGCAATGCTGGATTTCGGGAATTTACCCCTGGCTCCCAGGCAAATAA

Clone variation with respect to NM\_012437.4



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_012437 unedited</p> <pre> ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGCAGGTTTCGGGCTTCAGGA CAATTCGTGATGGCGGGGGCTGGTTCGCCGCTGTATCGGGGACAGGACCCCGGTGGCG GGGCCCACAGGCCGCGACCTTTTCGCCGAAGGCTGCTGGAGTTCTCGGACCCGCTGTGC AGCAGCTCGACTCTCACGTACACGCCGTAGAGAGAGCCAGGTAGAGCTCCGGGAACAAA TTGACAACCTAGCCACAGAAGTGTCCGCATAAATGAGGATCAGAAGGTGGCCCTGGATC TTGACCCCTATGTTAAGAAGCTACTTAATGCCCGCGCAGCGTTGTCTTGTTAACAACA TTCTACAGAATGCTCAGGAACGACTGAGACGGCTAAACCACAGTGTGCCAAGGAAACAG CCCGCAGGAGAGCAATGCTGGATTTCGGGAATTTACCCCTGGCTCCCCAGGCAAATAAC AGATGAGCCTATGGACTCAGTAGCACAAGTACTGTTCCCGAGCTGCCTTGTTTCAACAGA CATGCAAAGATCCTAGGAGACAGTCCCCATAGACTTTCAGACATTAAGGAGGAGCCGTA CAGTTTGTGTTGAAGCACTTCGTCTTACCATTTATGTAGGGGCCCCAGGAAACCTACCCAC AGCCAGAATGAGGTTCCANAGGACTTACANTTAATATGGCTCTGGCTTNCCTTCCANAT GAGCTGAGGCCTACTTTNTTTTTAGCTGCATACTTGGGCTTACCTTCTTAGGACTA GTTACCAGAGGGCTNNCTTTGNNATGTACATGCCTGGTACATGGNCCCTGAAGCATGNC CCTACCTGGGACTCTATTTTCTGGTAACCTGGGGATTGGAGGGGGAGGCAAAGCAAGG AATGACCTTTGCCACCATTTTTATTGNCTGCCTGAAACNAACCATGTGAAAAAATTTTT CAAAA </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_012437 unedited</p> <pre> GGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCAT TTAAAGAATTTATGGAATAAAATGATTCTATCAACTGCTACTGTTTTCAACCCAGGGC AATAAAAAAGGGGGGGACAGAGGTCATCACTTTGACTTTCCTGCCCTCCAAATCC CCAGGGTAAACAGGAAAATGAAAAGTACAGGTAAGGACATGCTGTCCAGCCCATGTA ACCAGGCTTGTAACATACAAAGGAACCCCTTTGGTAACTAGTCCTGAAAAAGGTAACC CTCAAGTTTGAGTTTAAAAAAAAGTAAAGGCCTCAGCTCATTTGTGAAAGGAACCAA AACCTTAATTAATGTAAGTCCTTTGGGAACCTCATTCTGGCTGGGTGTAGGTTTCCTGG GGCCCTACATAAATGGGTAAAACAAAGGGCTTAAAACAACTGTACGGCTCCCTTTTTTA ATGTCTGAAAGTCTATGGGGACTGTCTCCTAGGATCTTGCATGTCTGTTAAAACAAGGC ACCTGGGGAACAGTACTTGGGCTACTGAGTCCATAGGCTCATCTGTTATTTGCCTGGGA CCAGGGGGGTAATCCCAAATCCAGCATTGCTCTCCTGCGGGCTGTTTCTTGGCAAC ACTGTGGTTTACCGTCTAAGTCGTTCCGACCATCTGTAGAATGTTGTTAACC AAGAC AACCGCTCGCCGCCATTAAGTAGCTTCTTACCTAGGGTCAAGATCCAGGCCCTTCT GATCCTAATTATGCCGCACAGTTCTGGGCTAGGTTGAAATTTGTTCCCGAACTTACCT GNCTCTTTGACGGGTGACCTGAAATCAAACCTCTGCACAAGGGTCCCAGGACTCCACAC CCTTCGAGAAGAGTCCCGCGTGGGCCCCACCCGGTCCCTGCCTCGACAAGNGGACCA ACCCCATACCATGN </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_012437
<b>Insert Size:</b>	1020 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\\_012437.3](#), [NP\\_036569.1](#)

**RefSeq Size:** 988 bp

**RefSeq ORF:** 411 bp

**Locus ID:** 23557

**UniProt ID:** [O95295](#)

**Cytogenetics:** 1q21.3

**Gene Summary:** The protein encoded by this gene is a coiled-coil-forming protein that associates with the SNARE (soluble N-ethylmaleimide-sensitive fusion protein attachment protein receptor) complex of proteins and the BLOC-1 (biogenesis of lysosome-related organelles) complex. Biochemical studies have identified additional binding partners. As part of the SNARE complex, it is required for vesicle docking and fusion and regulates neurotransmitter release. The BLOC-1 complex is required for the biogenesis of specialized organelles such as melanosomes and platelet dense granules. Mutations in gene products that form the BLOC-1 complex have been identified in mouse strains that are models of Hermansky-Pudlak syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2012]

Transcript Variant: This variant (1) represents the longest transcript and encodes the supported protein.