

## Product datasheet for RC202602

### SNAPIN (NM\_012437) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SNAPIN (NM\_012437) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** SNAPIN  
**Synonyms:** BLOC1S7; BLOS7; BORCS3; SNAPAP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC202602 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGGGGCTGGTTCCGCCGCTGTATCGGGGGCAGGGACCCCGGTGGCGGGGCCACAGGCCGCGACC  
 TTTTCGCCGAAGGGCTGCTGGAGTTCTGCGACCCGCTGTGCAGCAGCTCGACTCTCACGTACACGCCGT  
 CAGAGAGAGCCAGGTAGAGCTCCGGGAACAAATTGACAACCTAGCCACAGAAGTGTGCCGATAAATGAG  
 GATCAGAAGGTGGCCCTGGATCTTGACCCCTATGTTAAGAAGCTACTTAATGCCCGGCGACGCGTTGTCT  
 TGGTTAACAACATTCTACAGAATGCTCAGGAACGACTGAGACGGCTAAACCACAGTGTGCCAAGGAAAC  
 AGCCCGCAGGAGACAAATGCTGGATTCGGGAATTTACCCCTGGCTCCCAGGCAA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:** >RC202602 protein sequence  
 Red=Cloning site Green=Tags(s)

MAGAGSAAVSGAGTPVAGPTGRDLFAEGLLEFLRPAVQQLDSHVHAVRESQVELREQIDNLATELCRINE  
 DQKVALDLDPYVKLLNARRRVVLVNNILQNAQERLRRLNHSVAKETARRRAMLDSGIYPPGSPGK

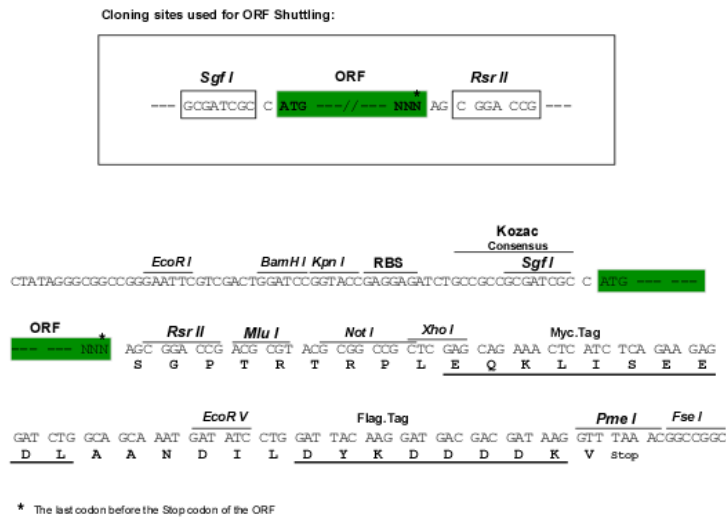
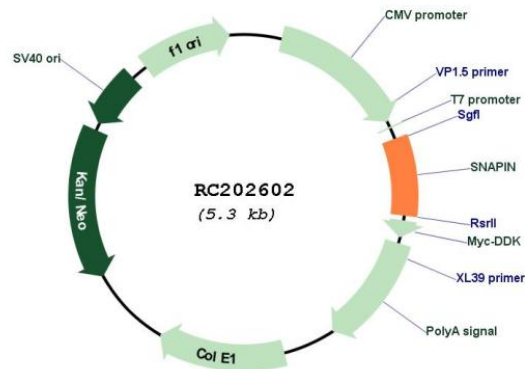
**SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6221\\_b03.zip](https://cdn.origene.com/chromatograms/mk6221_b03.zip)

**Restriction Sites:** SgfI-RsrII



[View online »](#)

**Cloning Scheme:**

**Plasmid Map:**


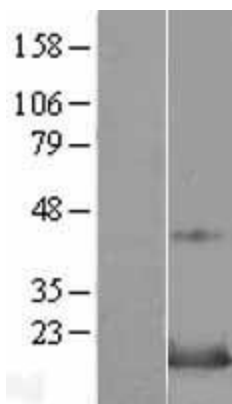
ACCN: NM\_012437

ORF Size: 408 bp

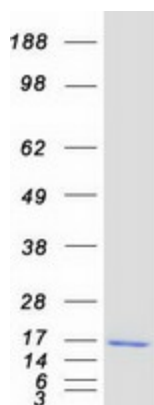
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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>	<u>NM_012437.6</u>
<b>RefSeq Size:</b>	1052 bp
<b>RefSeq ORF:</b>	411 bp
<b>Locus ID:</b>	23557
<b>UniProt ID:</b>	<u>O95295</u>
<b>Cytogenetics:</b>	1q21.3
<b>MW:</b>	14.9 kDa
<b>Gene Summary:</b>	<p>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]</p>

**Product images:**

Western blot validation of overexpression lysate (Cat# [LY415762]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202602 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNAPIN protein (Cat# [TP302602]). The protein was produced from HEK293T cells transfected with SNAPIN cDNA clone (Cat# RC202602) using MegaTran 2.0 (Cat# [TT210002]).