

Product datasheet for **RG202602**

SNAPIN (NM_012437) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SNAPIN (NM_012437) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SNAPIN
Synonyms: BLOC1S7; BLOS7; BORCS3; SNAPAP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202602 representing NM_012437
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGGGGCTGGTTCCGCCGCTGTATCGGGGGCAGGGACCCCGGTGGCGGGGCCACAGGCCGCGACC
 TTTTCGCCGAAGGGCTGCTGGAGTTCCTGCGACCCGCTGTGCAGCAGCTCGACTCTCACGTACACGCCGT
 CAGAGAGAGCCAGGTAGAGCTCCGGGAACAAATTGACAACCTAGCCACAGAAGTGTGCCGATAAATGAG
 GATCAGAAGGTGGCCCTGGATCTTGACCCCTATGTTAAGAAGCTACTTAATGCCCGGCGACGCGTTGTCT
 TGGTTAACAACATTCTACAGAATGCTCAGGAACGACTGAGACGGCTAAACCACAGTGTGCCAAGGAAAC
 AGCCCGCAGGAGACCAATGCTGGATTCGGGAATTTACCCCTGGCTCCCAGGCAA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

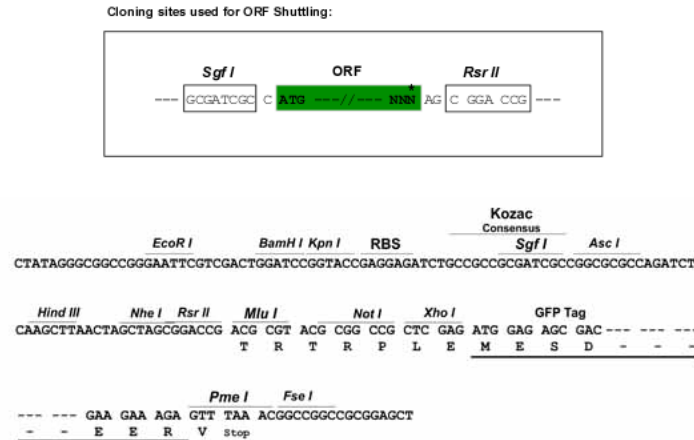
Protein Sequence: >RG202602 representing NM_012437
 Red=Cloning site Green=Tags(s)
 MAGAGSAAVSGAGTPVAGPTGRDLFAEGLLEFLRPAVQQLDSHVHAVRESQVELREQIDNLATELCRINE
 DQKVALDLDPYVKLLNARRRVLVNINLQNAQERLRRLNHSVAKETARRRAMLDSGIYPPGSPGK

SGPTRRRLE - GFP Tag - V

Restriction Sites: Sgfl-RsrII



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Cloning Scheme:


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.

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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

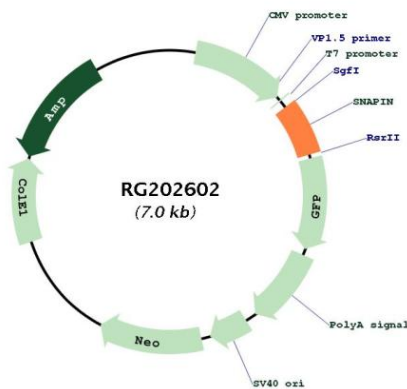
RefSeq: [NM_012437.6](#)

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]

Product images:



Circular map for RG202602