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Product datasheet for RN215881

Snapin (NM_001170576) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snapin (NM_001170576) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Snapin
Synonyms:	Snapap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN215881 representing NM_001170576 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCGCGGCTGGTTCCGCTGCCGTGTCTGGGGCCGGGACCCCAGTGGCGGGGCCCACAGGCCGCGACC TCTTTGCCGAGGGGCTCCTGGAGTTCCTGCGACCTGCTGTGCAGCAACTCGACTCTCACGTGCACGCGGT CAGAGAAAGCCAAGTAGAGCTCCGGGAACAAATTGACAACCTAGCTACAGAACTGTGCCGGATCAATGAG GATCAGAAGGTGGCCCTGGATCTGGACCCCTATGTTAAGAAGCTGCTTAATGCCAGGCGGCGAGTTGTCT TGGTCAACAATATTTTACAGAATGCACAGGAACGACTAAGGCGGTTAAACCACAGTGTGGCCAAGGAAAC AGCCCGCAGGAGAGCCATGCTGGATTCAGGAGTTTACCCTCCTGGTTCTCCAAGCAAATAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001170576
Insert Size:	411 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).

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OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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.
RefSeq:	NM_001170576.1, NP_001164047.1
RefSeq Size:	1534 bp
RefSeq ORF:	411 bp
Locus ID:	295217
UniProt ID:	P60192
Cytogenetics:	2q34
Gene Summary:	Component of the BLOC-1 complex, a complex that is required for normal biogenesis of lysosome-related organelles (LRO), such as platelet dense granules and melanosomes. In concert with the AP-3 complex, the BLOC-1 complex is required to target membrane protein cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals. The BLOC-1 complex, in association with SNARE proteins, is also proposed to be involved in neurite extension. Plays a role in intracellular vesicle trafficking and synaptic vesicle recycling. May modulate a step between vesicle priming, fusion and calcium-dependent neurotransmitter release through its ability to potentiate the interaction of synaptotagmin with the SNAREs and the plasma-membrane-associated protein SNAP25. Its phosphorylation state influences exocytotic protein interactions and may regulate synaptic vesicle exocytosis. May also have a role in the mechanisms of SNARE-mediated membrane fusion in non-neuronal cells (PubMed:10195194, PubMed:11283605). As part of the BORC complex may play a role in lysosomes movement and localization at the cell periphery. Associated with the cytosolic face of lysosomes, the BORC complex may recruit ARL8B and couple lysosomes to microtubule plus-end-directed kinesin motor (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longer isoform (1).