

Product datasheet for **MC202614**

Snx1 (NM_019727) Mouse Untagged Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Snx1 (NM_019727) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Snx1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >BC066044 sequence for NM_019727
 CCTCACACGGCTGGAGCGCTTTGCTCGCGGCACTGTCTATAAAGTTGTTGTTGCTGCTTCCGCCACGGGT
 GGAGGAAGATGGCGTCAGGAGGTGGTGGCTGTAGCGCTTCGGAGCGACTCCCTCCGCCCTCCCTGGCAT
 GGATCCGGAGTCGGAAGGGGCTGCCGGGGGCTCAGAACCCGAGGCTGGGGACAGCGACACCCGAGGGGGAG
 GATATTTTCACTGGCGCCGCGCAGCCACTAAGCCCCAGTCTCCAAGAAAACCATCCCTTTTCTA
 TCAAAAATGGTTCCAAGAGAATGGGATCCATGAGGACCAAGACCAAGAGCCACAGGATCTCTTTGCAGA
 TGCCACAGTGGAACCTCCCTGGACAGCACAGAATAACCGAAGACAATGCCAGGCAAAACCTTACT
 TCTCATCTCCGCAAGAAGCCACAAATTCTCCGAAGCCACAGCCAAGCTATGAGGAGCTGGAGGAAGAAC
 AGGAGGATCAGTTTGATTGACAGTTGGTATCACCGATCCTGAGAAGATCGGGGATGGTATGAATGCCTA
 TGTAGCCTACAAAGTCACCACACAGACAAGCTTACCGATGTTCAGAAGTAGGCAGTTTGCAGTGAAGA
 AGATTCAGTGACTTCTGGGTCTTTATGAGAAGCTTTCAGAGAAGCACTCCAGAATGGTTTCATTGTGC
 CTCCTCCACCCGAGAAGAGCCTAATAGGAATGACAAAGGTGAAGTTGGGAAGGAAGATTCTTCCGC
 AGAGTTTCTTGAGAAACGGAGGGCTGCTTTGAAAGGTACCTTCAAAGAATTGTGAATCATCCACCATG
 TTACAGGACCCAGATGTCAGGGAGTTTCTGAAAAAGAAGAGCTCCCTCGAGCTGTGGGCACGAGGCTT
 TGAGTGGCGCTGGTCTCCTTAAGATGTTCAACAAAGCTACAGATGCAGTCAGCAAAATGACCATCAAGAT
 GAATGAATCAGACATTTGGTTCGAGGAGAACTCCAGGAGGTAGAGTGTGAGGAGCAGCGCTACCGAAG
 CTGCATGCTGTGGTGGAGACTCTAGTCAACCATAGGAAAGAACTAGCGCTGAACACAGCCCTGTTTGCCA
 AGAGTCTAGCCATGCTTGGGAGCTCCGAGGACAACACAGCACTTCTCGAGCGCTCTCCAACTGGCTGA
 GGTGGAAGAAAAGATTGAGCAGCTCCACCAGGAACAGGCCAACAAATGACTTCTTCTCCTTGCTGAACTC
 CTGAGTGACTATATTCGCTCCTGGCCATTGTCCGAGCTGCCTTCGACCAGCGCATGAAGACATGGCAGC
 GCTGGCAGGATGCTCAAGCCACGCTGCAGAAGAAGCGGGAGTCTGAGGCACGGCTGCTGTGGCCAAACA
 GCCTGACAAACTGCAGCAGGCTAAGGATGAGATCACAGAGTGGGAATCTCGGGTACTCAGTATGAAAGG
 GACTTTGAAAGGATTTCCACAGTTGTCCGAAAGGAAGTGACACGATTTGAGAAAGAGAAGTCCAAGGATT
 TCAAAAACACGATGATGAAGTACCTGGAGACACTCCTACATTCCAGCAGCAGCTGGCAAAATACTGGGA
 AGCCTTCTTCTGAGGCAAAGGCCATCTCCTGAGGGACCAAGGACACCAGGCCTACCTTCGTGACGCT
 GCCTTTTTATACACTGTCTTCTTCTCGATGGACCCTAACTGATGCCCTGCCTTGGCTGGACTTAGCC
 CTTCCACTCTGCCCCACAGACAACTGTTCCAGTTACTCTAACCAACATTTCAATTTAGCTTCCACGTAT
 ATTTTCTTACCTAAGAGAATAGTTTCTGCTTTAAGCAAAAGACCTACAATAGGTGGTGAATTATAGGT
 TGGGGTGGAGTGTGATATAAATATAAATACAAATGTATATTTTTCAGGATGTGGTTTAGGAAGTGGG
 AATAACGTTTTCTGTACTCCTGATGGTCCATGAAAGATTATGTAATAAAATATTTGAAAATCATGAAA AAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI

ACCN: NM_019727

Insert Size: 1566 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).

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: [BC066044](#), [AAH66044](#)

RefSeq Size: 2046 bp

RefSeq ORF: 1566 bp

Locus ID: 56440

UniProt ID: [Q9WV80](#)

Cytogenetics: 9 C

Gene Summary: Involved in several stages of intracellular trafficking. Interacts with membranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)) or phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2). Acts in part as component of the retromer membrane-deforming SNX-BAR subcomplex. The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma membrane transport for cargo protein recycling. The SNX-BAR subcomplex functions to deform the donor membrane into a tubular profile called endosome-to-TGN transport carrier (ETC). Can sense membrane curvature and has in vitro vesicle-to-membrane remodeling activity. Involved in retrograde endosome-to-TGN transport of lysosomal enzyme receptors (IGF2R, M6PR and SORT1). Plays a role in targeting ligand-activated EGFR to the lysosomes for degradation after endocytosis from the cell surface and release from the Golgi. Involvement in retromer-independent endocytic trafficking of P2RY1 and lysosomal degradation of protease-activated receptor-1/F2R. Promotes KALRN- and RHOG-dependent but retromer-independent membrane remodeling such as lamellipodium formation; the function is dependent on GEF activity of KALRN. Required for endocytosis of DRD5 upon agonist stimulation but not for basal receptor trafficking (By similarity).[UniProtKB/Swiss-Prot Function]