

Product datasheet for **MC217483**

Snx27 (NM_029721) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snx27 (NM_029721) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Snx27
Synonyms:	5730552M22Rik; ESTM45; ESTM47; R75405
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217483 representing NM_029721
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGACGAGGACGGGAAGGTATTCACCCCTCAGCCCGCACCGGAATGGAGCGCGCGGGGGT
 CTGGGCTCCACTGCGCCGGGAACGGTGGCGGGGAGGCGGCGGCCCGGGTCTGCGCATTGTCAAGTC
 CGAATCCGGCTACGGCTTCAACGTGCGGGGCAAGTGAGCGAGGGCGGGCAACTGCGGAGCATCAACGGG
 GAGCTGTACGCGCGCTGCAGCATGTGAGCGCCGTGCTGCCGGGGGGCGGCCGACCGGGCGGGGTGC
 GCAAAGGGGACCGCATCCTGGAGGTGAACGGCGTGAATGTTGAGGGGGCGACACACAAGCAGGTGGTGA
 CCTGATCCGAGCAGGCGAGAAGGAATTGATCTTGACAGTGTGTCTGTACCTCCTCATGAGGCTGATAAC
 CTAGATCCAGTGACGACTCCTGGGACAATCATTTTATGATTACACAGAAAAGCAAGCAGTGCCCATAT
 CGGTCCCACATACAAACATGTGGAGCAGAATGGTGAGAAAGTTTGGTATACAATGTTTACATGGCTGG
 GAGGCAGCTGTGTCTAAGCGGTACCGGAGTTGCCATACTGCACCAAAACCTGAAGAGAGAATTTGCC
 AACTTTACATTTCTCGACTTCCAGGAAAGTGGCCATTCTCATTATCAGAAACAATTGGATGCCCGGC
 GTCGTGGGTTGGAAGAATATCTAGAAAAGTGTGTTCAATCCGAGTCATTGGTGAGAGTGACATCATGCA
 GGAATTCCTGTCTGAGTCTGATGAGAATTACAATGGTGTGTCTGATGTAGAACTGAGAGTAGCACTACCG
 GATGGAACAACGGTTACTGTGAGAGTTAAGAAGAACAGTACTACAGACCAAGTGTACCAGGCTATTGCGAG
 CAAAGGTTGGCATGGACAGTACAACAGTGAATTTACTTTGCCTATTTGAAGTGATCAATCATTCTTTGT
 ACGTAAGCTGGCACCTAATGAATTTCTCATAAACTCTACGTCCAGAACTATACATCAGCTGTGCCAGGC
 ACTTGCCTGACCATTGCAAGTGGCTCTTACAACAGAAGAAGAAGTCTCTTAAATGACAATGACCTTG
 CTGTTACGTACTTCTTTCATCAGGCTGTTGATGATGTAAGAAAGGTTACATTAAGCAGAAGAGAATC
 TTACCAGTTACAGAAGCTCCATGAACAAAGGAAGATGGTCATGTACCTCAACATGCTAAGGACCTGCGAG
 GGCTACAATGAAATCATCTTCCCTCACTGTGCCTGTGACTCGAGGAGGAAGGGACATGTTATCACAGCCA
 TCAGCATCACGCACTTTAAACTTCATGCATGCACTGAAGAAGGGCAGCTGGAGAACCAGGTAATAGCGTT
 TGAATGGGATGAGATGCAGCGATGGGACACAGATGAAGAAGGAATGGCCTTCTGTTTTGAATATGCGCGA
 GGAGAGAAGAAGCCTCGATGGGTTAAAATCTTACACCATATTTCAATTACATGCATGAATGCTTTGAGA
 GGGTGTCTCGGAGCTCAAGTGGAGAAAAGAGGAATAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_029721

Insert Size: 1581 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: [NM_029721.2](#), [NP_083997.1](#)

RefSeq Size: 6273 bp

RefSeq ORF: 1581 bp

Locus ID: 76742

UniProt ID: [Q3UHD6](#)

Cytogenetics: 3 F2.1

Gene Summary: Involved in the retrograde transport from endosome to plasma membrane, a trafficking pathway that promotes the recycling of internalized transmembrane proteins. Following internalization, endocytosed transmembrane proteins are delivered to early endosomes and recycled to the plasma membrane instead of being degraded in lysosomes. SNX27 specifically binds and directs sorting of a subset of transmembrane proteins containing a PDZ-binding motif at the C-terminus: following interaction with target transmembrane proteins, associates with the retromer complex, preventing entry into the lysosomal pathway, and promotes retromer-tubule based plasma membrane recycling. SNX27 also binds with the WASH complex. Interacts with membranes containing phosphatidylinositol-3-phosphate (PtdIns(3P)). May participate in establishment of natural killer cell polarity. Recruits CYTIP to early endosomes.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate 3' terminal exon which results in a frameshift compared to variant 1. It encodes isoform 2 which has a shorter and distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.