

## Product datasheet for **MC218486**

### **Snx27 (NM\_001082484) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Snx27 (NM_001082484) 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:** >MC218486 representing NM\_001082484  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCGGACGAGGACGGGAAGGTATTCACCCCTCAGCCCGCACCGAATGGAGGCGGCGGGGGGT  
CTGGGCTCCACTGCGCCGGAACGGTGGCGGGGAGGCGGCGCCCGGGTCTGCGCATTGTCAAGTC  
CGAATCCGGCTACGGCTTCAACGTGCGGGGCAAGTGAGCGAGGGCGGGCAACTGCGGAGCATCAACGGG  
GAGCTGTACGCGCGCTGCAGCATGTGAGCGCCGTGCTGCCGGGGGGCGGCCGACCGGGCGGGGTGC  
GCAAAGGGGACCGCATCCTGGAGGTGAACGGCGTGAATGTTGAGGGGGCGACACACAAGCAGGTGGTGA  
CCTGATCCGAGCAGGCGAGAAGGAATTGATCTTGACAGTGTGTCTGTACCTCCTCATGAGGCTGATAAC  
CTAGATCCAGTGACGACTCCTGGGACAATCATTTTATGATTACACAGAAAAGCAAGCAGTGCCCATAT  
CGGTCCCACATACAAACATGTGGAGCAGAATGGTGAGAAGTTTGGTATACAATGTTTACATGGCTGG  
GAGGCAGCTGTGTTCTAAGCGGTACCGGAGTTGCCATACTGCACCAAAACCTGAAGAGAGAATTTGCC  
AACTTTACATTTCTCGACTTCCAGGAAAGTGGCCATTCTCATTATCAGAAACAATTGGATGCCCGGC  
GTCGTGGGTTGGAAGAATATCTAGAAAAGTGTGTTCAATCCGAGTCATTGGTGAGAGTGACATCATGCA  
GGAATTCCTGTCTGAGTCTGATGAGAATTACAATGGTGTGTCTGATGTAGAACTGAGAGTAGCACTACCG  
GATGGAACAACGGTACTGTGACAGTAAAGAAGACAGTACTACAGACCAAGTGTACCAGGCTATTGCAG  
CAAAGGTTGGCATGGACAGTACAACAGTGAATTAATTTGCCTTATTTGAAGTGATCAATCATTCTTTGT  
ACGTAAGCTGGCACCTAATGAATTTCTCATAAACTCTACGTCCAGAACTATACATCAGCTGTGCCAGGC  
ACTTGCCTGACCATTGCAAGTGGCTCTTACAACAGAAGAAGTCTCTTAAATGACAATGACCTTG  
CTGTTACGTACTCTTTTATCAGGCTGTTGATGATGTAAGAAGGTTACATTAAGCAGAGAGAAATC  
TTACCAGTTACAGAAGCTCCATGAACAAAGGAAGATGGTCAATGTACCTCAACATGCTAAGGACCTGCGAG  
GGCTACAATGAAATCATCTTCCCTCACTGTGCCTGTGACTCGAGGAGGAAGGGACATGTTATCACAGCCA  
TCAGCATCACGACTTTAACTTATGATGCACTGAAGAAGGGCAGCTGGAGAACCAGGTAATAGCGTT  
TGAATGGGATGAGATGCAGCGATGGGACACAGATGAAGAAGGAATGGCCTTCTGTTTTGAATATGCGCGA  
GGAGAGAAGAAGCCTCGATGGGTTAAAATCTTACACCATATTTCAATTACATGCATGAATGCTTTGAGA  
GGGTGTTCTGCGAGCTCAAGTGGAGAAAAGAGAATATTTCCAGATGGCGAGGTACAGCAGAGGGATGT  
GGCCACC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001082484

**Insert Size:** 1620 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\\_001082484.2](#), [NP\\_001075953.1](#)

**RefSeq Size:** 5479 bp

**RefSeq ORF:** 1620 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 (1) represents the shorter transcript and encodes the longer 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.