

## Product datasheet for **MC227515**

### **Snx5 (NM\_001199188) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Snx5 (NM\_001199188) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Snx5  
**Synonyms:** 0910001N05Rik; 1810032P22Rik; AU019504; D2Ertd52e  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC227515 representing NM\_001199188  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCGCGGTTCCCGAGTTGCTGGAGCAGCAGGAGGAGGACCGCAGCAAGTTAAGATCTGTGTCTGTGG  
 ACCTGAATGTTGACCCATCGCTTCAGATCGACATACCTGATGCACTCAGTGAGAGAGATAAGGTCAAGTT  
 TACAGTGACACCAAGACCACACTGTCCACATTCAGAGCCAGAGTTTTCTGTTACAAGGCAACATGAA  
 GACTTTGTGTGGCTGCATGACACTCTTACTGAAACAACGGATTATGCTGGCCTTATTATCCCTCCTGCTC  
 CTACAAAGCCAGACTTTGATGGCCCTCGAGAGAAGATGCAGAACTGGGAGAAGGGGAAGGATCTATGAC  
 AAAAGAAGAGTTTGCCAAGATGAAGCAAGAACTGGAAGCTGAGTATCTCGCTGTCTTAAAGAAGACTGTG  
 TCCACCCATGAAGTCTTCTTCAGCGGCTTCTTCTCACCTGTTCTCAGTAAAGACCGCAACTTTCATG  
 TTTTCTTGGAAATATGATCAGGATCTAAGTGTAGACGGAAGAATACCAAGGAGATGTTTGGAGGCTTTT  
 TAAAAGTGTGGTGAAGAGCGCCGATGAGGTCTTTTTCTGGAGTTAAGGAGGTGGATGACTTCTTTGAG  
 CAAGAGAAGAATTTCTTATTAATATTACAACAGGATCAAGGATTCCTGTGCTAAAGCAGACAAAATGA  
 CCAGATCTCACAAAATGTTGCTGACGACTATATCCACTGCAGCCTGCTTGCATAGCCTGGCCTTGGA  
 AGAACCCACAGTCATCAAAAAGTACCTGTTGAAAGTTGCAGAGCTATTTGAAAACTTAGGAAAGTGGAA  
 GGTGCGACTCATCAGATGAAGACTTAAAAGTGCAGAGCTCCTCCGATACTACATGCTCAACATAGAGG  
 CTGCAAAGGATCTTTGTATAGACGTACCAAAGCCCTAATTGACTATGAGAATTAACAAGCTTTGGA  
 CAAGGCCCGGTTAAAAGCAAAGATGTCAAGTTGGCAGAGACTCATCAGCAGGAATGCTGCCAGAAGTTT  
 GAACAGCTTTCTGAATCTGCAAAAAGAGCTGATAAACTTCAAACGGAAGAGAGTGGCAGCATTTCGAA  
 AGAACCTAATCGAAATGTCTGAACTGGAATAAAGCATGCCAGAAACAACGTCTCCCTGTTGCAGAGCTG  
 CATCGACTTATCAAGAACA**CTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001199188
<b>Insert Size:</b>	1215 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_001199188.1</a></u> , <u><a href="#">NP_001186117.1</a></u>
<b>RefSeq Size:</b>	2508 bp
<b>RefSeq ORF:</b>	1215 bp
<b>Locus ID:</b>	69178
<b>UniProt ID:</b>	<u><a href="#">Q9D8U8</a></u>
<b>Cytogenetics:</b>	2 70.98 cM

**Gene Summary:**

Involved in several stages of intracellular trafficking. Interacts with membranes containing phosphatidylinositol lipids. 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). Does not have in vitro vesicle-to-membrane remodeling activity. Involved in retrograde transport of lysosomal enzyme receptor IGF2R. May function as link between endosomal transport vesicles and dynactin. Plays a role in the internalization of EGFR after EGF stimulation. Involved in EGFR endosomal sorting and degradation; the function involves PIP5K1C and is retromer-independent. Together with PIP5K1C facilitates HGS interaction with ubiquitinated EGFR, which initiates EGFR sorting to intraluminal vesicles (ILVs) of the multivesicular body for subsequent lysosomal degradation. Involved in E-cadherin sorting and degradation; inhibits PIP5K1C-mediated E-cadherin degradation (By similarity). Plays a role in macropinocytosis (PubMed:18854019).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein. 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.