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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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227515 representing NM_001199188 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCGCGGTTCCCGAGTTGCTGGAGCAGCAGGAGGAGGACCGCAGCAAGTTAAGATCTGTGTCTGTGG ACCTGAATGTTGACCCATCGCTTCAGATCGACATACCTGATGCACTCAGTGAGAGAGATAAGGTCAAGTT TACAGTGCACACCAAGACCACACTGTCCACATTTCAGAGCCCAGAGTTTTCTGTTACAAGGCAACATGAA GACTTTGTGTGGCTGCATGACACTCTTACTGAAACAACGGATTATGCTGGCCTTATTATCCCTCCTGCTC CTACAAAGCCAGACTTTGATGGCCCTCGAGAGAAGATGCAGAAACTGGGAGAAGGGGAAGGATCTATGAC AAAAGAAGAGTTTGCCAAGATGAAGCAAGAACTGGAAGCTGAGTATCTCGCTGTCTTTAAGAAGACTGTG TCCACCCATGAAGTCTTTCTTCAGCGGCTTTCTTCTCACCCTGTTCTCAGTAAAGACCGCAACTTTCATG TTTTCTTGGAATATGATCAGGATCTAAGTGTTAGACGGAAGAATACCAAGGAGATGTTTGGAGGCTTTTT TAAAAGTGTGGTGAAGAGCGCCGATGAGGTCCTTTTTTCTGGAGTTAAGGAGGTGGATGACTTCTTTGAG CAAGAGAAGAATTTCCTTATTAACTATTACAACAGGATCAAGGATTCCTGTGCTAAAGCAGACAAAATGA CCAGATCTCACAAAAATGTTGCTGACGACTATATCCACACTGCAGCCTGCTTGCATAGCCTGGCCTTGGA AGAACCCACAGTCATCAAAAAGTACCTGTTGAAAGTTGCAGAGCTATTTGAAAAACTTAGGAAAGTGGAA GGTCGAGTCTCATCAGATGAAGACTTAAAACTGACAGAGCTCCTCCGATACTACATGCTCAACATAGAGG CTGCAAAGGATCTCTTGTATAGACGTACCAAAGCCCTAATTGACTATGAGAATTCAAACAAAGCTTTGGA CAAGGCCCGGTTAAAAAGCAAAGATGTCAAGTTGGCAGAGACTCATCAGCAGGAATGCTGCCAGAAGTTT GAACAGCTTTCTGAATCTGCAAAAGAAGAGCTGATAAACTTCAAACGGAAGAGAGTGGCAGCATTTCGAA AGAACCTAATCGAAATGTCTGAACTGGAAATAAAGCATGCCAGAAACAACGTCTCCCTGTTGCAGAGCTG CATCGACTTATTCAAGAACAACTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001199188
Insert Size:	1215 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).
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_001199188.1, NP_001186117.1
RefSeq Size:	2508 bp
RefSeq ORF:	1215 bp
Locus ID:	69178
UniProt ID:	Q9D8U8
Cytogenetics:	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.