

Product datasheet for **RN205245**

Snx5 (NM_001106518) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snx5 (NM_001106518) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Snx5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN205245 representing NM_001106518 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTTGGAGGCTTTTTTAAAGTGTTGTGAAGAGCGCTGATGAGGTCCTTTTTCTGGAGTTAAGGAGG
 TGGATGACTTCTTTGAGCAAGAGAAGAAGCTTCCTTATTAAGTATTACAACAGGATCAAGGACTCCTGTGC
 TAAAGCGGACAAGATGACCAGATCTCACAAAAATGTTGCTGATGATTACATCCACACTGCAGCCTGCTTG
 CATAGCCTGGCCTTAGAAGAGCCACAGTCATCAAAAAGTACCTGTTGAAAGTTGCAGAGCTATTTGAAA
 AACTTAGGAAAGTGGAAGGTCGAGTCTCATCAGATGAAGATTTAAAGTACAGAGCTCCTCCGATACTA
 CATGCTCAACATAGAGGCTGCAAGGATCTCTATACAGACGCACAAAGGCCCTAATTGACTATGAGAAT
 TCAAACAAAGCTTTGGACAAGGCCCGGTTAAAAAGCAAAGATGTCAAGTTGGCAGAGACTCATCAGCAGG
 AATGCTGCCAGAAGTTTGAACAGCTTTCTGAATCTGCAAAAGAAGAGCTGATAAACTTCAAACGGAAGAG
 AGTGGCAGCATTTGAAAGAACCTAATTGAAATGTCTGAACTGGAAATAAAGCATGCCAGAAACAATGTC
 TCCCTGTTGCAGAGCTGCATTGATTTATTCAAGAACA**CTGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001106518
Insert Size:	672 bp


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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:	<u>NM_001106518.1, NP_001099988.1</u>
RefSeq Size:	2179 bp
RefSeq ORF:	672 bp
Locus ID:	296199
Cytogenetics:	3q41
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. Plays a role in macropinocytosis (By similarity).[UniProtKB/Swiss-Prot Function]