

## Product datasheet for MR206384

### Snx6 (NM\_026998) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Snx6 (NM_026998) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Snx6
Synonyms:	2010006G21Rik; 2610032J07Rik; 2810425K19Rik; AU018928; C85963
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206384 representing NM_026998 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGGAAGGCCTGGATGACGGCCCCGACTTCTCTCGGAGGAAGACCGCGACTTAAAGCAATAAATG  
TAGATCTCCAGAGTGACGCTGCTCTGCAGGTGGACATTTAGCAAAATGAATTTTCAGTCGTTGACAAACAT  
TTTCACCGTTACACAAAGAGTTCATTGCCAAATTTAAAGCAAAATGAATTTTCAGTCGTTGACAAACAT  
GAGGAATTTATCTGGCTTCATGATTCCTTTGTTGAAAATGAAGACTATGCAGGTTACATTATCCCACCAG  
CACCACCAAGACCTGATTTTGTGCTTACGGGAAAAACTGCAGAAGCTTGGAGAAGGGGAAGGGTCGAT  
GACAAAGGAAGAATTCACAAAGATGAAACAGGAACTGGAAGCTGAATACCTGGCGATCTTCAAGAAGACA  
GTTGCAATGCATGAGGTGTTCTGTGTCCGGTTGACGCGCATCCTATTTGAGAAAAGATTTAAATTTCC  
ACGTCTTCTTGAATAACAATCAAGATTTGAGTGTTCGAGGAAAAAATAAAAAAGAAAACTCGAGGATTT  
CTTTAAAAACATGGTTAAGTCAGCAGATGGAGTCATTGTTTCTGGAGTAAAGGATGTAGACGACTTCTTT  
GAGCACGAACGAACATTCCTTTTAGAGTATCACAAACCGAGTTAAGGATGCATCTGCTAAGTCGGACAGAA  
TGACAAGATCTCACAAAAGTGCTGCTGATGATTACAATAGAATGGGTCTTCATTGTATGCTTTAGGAAC  
TCAGGACTCTACAGATATATGCAAGTTTTCTCAAAGTTTCAGAGCTGTTTGATAAAAACAAGAAAAATA  
GAAGCTCGGGTGTCTGCTGACGAGGACCTCAAGCTCTGACCTATTAAGTACTACTTGGGGAGTCTC  
AAGCAGCTAAGGACCTCCTCTATAGAAGTCTAGGTCGCTGGTAGACTATGAAAAATGCCAATAAAGCACT  
GGACAAGCAAGAGCGAAAAACAAGATGTTCTACAGGCTGAAACTTCCCAACAGTTGTGCTGTCAGAAG  
TTTGAAAAATATCTGAATCTGCAAAACAAGAACTGATAGATTTTAAAGACAAGAAGAGTTGCTGCATTCA  
GAAAAATTTAGTGGAACCTGCAGAACTAGAAGTGAAGCATGCAAGGGCAACCTTCAGCTCCTTCAGAA  
CTGCCTTGGGTTTTAAATGGAGACACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206384 representing NM\_026998  
Red=Cloning site Green=Tags(s)

MMEGLDDGPDFLSEEDRGLKAINVDLQSDAALQVDISDALSERDRVNFTVHTKSSLPNFKQNEFSVVRQH  
 EEFIWLHDSFVENEDYAGYIIPPAPRPDFDASREKLQKLGEEGSMTKEEFTKMKQLEAEYLAIFKKT  
 VAMHEVFLCRVAAHPILRKDLNFHFVLEYNQDL SVRGKNKKEKLEDFFKNMVKSADGVIVSGVKDVDDFF  
 EHERTFLLLEYHNRVKDASAKSDRMTRSHKSAADDYNRIGSSLYALGTQDSTDICKFFLKVSELFDKTRKI  
 EARVSADEDLKLSDLLKYLLRESQAAKDLLYRRSRSLVDYENANKALDKARAKNKDVLQAETSQQLCCQK  
 FEKISESAKQELIDFKTRRVAAFRKNLVELAELELKHAKGNLQLLQNC LAVLNGDT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_026998

**ORF Size:** 1218 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_026998.2](#), [NM\\_026998.3](#), [NP\\_081274.2](#)

**RefSeq Size:** 1880 bp

**RefSeq ORF:** 1221 bp

**Locus ID:** 72183

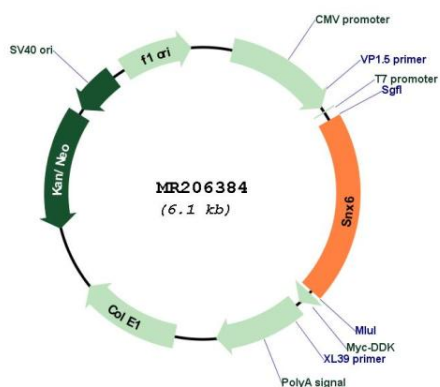
**UniProt ID:** [Q6P8X1](#)

**Cytogenetics:** 12 C1

**MW:** 47.1 kDa

**Gene Summary:** Involved in several stages of intracellular trafficking. Interacts with membranes phosphatidylinositol 3,4-bisphosphate and/or phosphatidylinositol 4,5-bisphosphate (Probable). 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 (By similarity). Involved in retrograde endosome-to-TGN transport of lysosomal enzyme receptor IGF2R. May function as link between transport vesicles and dynactin. Negatively regulates retrograde transport of BACE1 from the cell surface to the trans-Golgi network. Involved in E-cadherin sorting and degradation; inhibits PIP5K1C-mediated E-cadherin degradation (By similarity). In association with GIT1 involved in EGFR degradation (PubMed:18523162). Promotes lysosomal degradation of CDKN1B (PubMed:20228253). May contribute to transcription regulation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206384