

Product datasheet for **MR208317**

Snx2 (NM_026386) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snx2 (NM_026386) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Snx2
Synonyms:	0610030A03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208317 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCCGAGAGGGAGCCTCCTCCGCTGGGGACGTGAAGCCACAGACTTTGAGGAGCTGGAGGACG
 GAGAGGACCTGTTCAACGACACCGTCTCCACCCTTGAGTCAAGTCCATCATCTCCGAACACGACCTCT
 CCCTGCAGAAGATATCAGTGCAAACCTCTAATGGCTCCAAACCTGTAGAAGTTGCTCTAGACGATGACAGA
 GAAGATCTTTTCGAGAAGCCACAGAAGAGGTGCTCTGGACAGTCCCGAAAGAGAGCTCATCTGTCTCT
 CCGAGCCGTCTCTGCGTCAACCCTGTCACTCCACCACACTCATTGCTCTAGAATCGAATCAAAGAG
 TATCTCTGCTCCAGTCACTTTGACAGATCCAGGGACGAGATTGAAGAAGAAGCAAATGGAGATATTTTT
 GATATAGAAATGGTGTGCAGATCCGGAAAAAGTTGGTATGGCATGAATGCTTACATGGCATATAGAG
 TAACAACAAGACTTCTCTTTCCATGTTCAAGTGAATTTTCAGTCAAAGAAGATTCACTGACTT
 TCTTGGTTGCATAGCAAATTAGCAAGCAAATATTTACATGTTGGTTACATCGTGCCACCCGCTCCAGAA
 AAGAGTATAGTAGGTATGACCAAGGTCAAAGTAGGTAAGAAGATTCATCATCCACTGAGTTGTAGAAA
 AACGAAGAGCGGCACTGGAGAGGTATCTTCAGAGAACAGTAAAGCATCCGACATTGCTTCAGGATCTGA
 CTTAAGGCAGTTTTTGGAAAGCTCAGAGCTGCCGAGAGCAGTTAATACGCAGGCTCTGAGTGGAGCAGGA
 ATATTGAGGATGGTGAACAAGGCTGCCGACGCTGTCAACAAAAAGACAATCAAGATGAATGAATCGGATG
 CATGGTTTGAAGAAAAGCAACAGCAATTTGAGAATCTTGACCAGCAACTCGGAAACTTCATGCCAGTGT
 TGAAGCCTTGGTCTGTATAGAAAAGAACTTTAGCAACACAGCCGCTTTGCTAAGAGTGTGCCATG
 CTAGGTAATCTGAGGACCACACTGCGCTCTCTAGAGCTTTGTCTCAGCTGGCAGAGGTTGAGGAGAAGA
 TAGACCAGTTACATCAAGAGCAAGCTTTTGTGACTTTTACATGTTCTCAGAACTCTTAGTGTACTACAT
 TCGTCTCATTGCTGCAGTGAAGGTGTGTTTGACCATCGGATGAAGTGTGGCAGAAATGGGAAGATGCT
 CAAATTACCTTGCTCAAAAAACGTGAAACTGAGGCAAAATTTGATGGTTGCTAACAAGCCAGATAAAATTC
 AACAAAGCTAAAAACGAGATAAGAGAGTGGGAGGCGAAAGTACAACAAGGAGAGAGAGATTTTGGAGAT
 CTCTAAAAACAATTCGAAAAGAAGTGGGAAGATTTGAGAAAAGACGAGTGAAGATTTTAAAGCTGTTATC
 ATCAAGTACTGGAGTCATTAGTACAAACACAGCAACAGCTGATAAAGTACTGGGAGGCATTCTACCTG
 AAGCCAAAGCCATTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208317 protein sequence
 Red=Cloning site Green=Tags(s)

MAAEREPPPLGDVKPTDFEELDGEDLFTSTVSTLESSPSSPEPASLPAEDISANSNGSKPVEVVLDDDR
 EDLFAEATEEVSLDSPERELILSSEPSAVTPVPTTLIAPRIESKISAPVIFDRSRDEIEEEANGDIF
 DIEIGVSDPEKVGDMNAYMAYRVTTKTSLSMFSKSEFSVKRRFSDFLGLHSLKASKYLHVGYIVPPAPE
 KSIVGMTKVKVKGEDSSSTEFVEKRRALERYLQRTVKHPTLLQDPDLRQFLESSELPRAVNTQALSGAG
 ILRMVNKAADAVNKMTIKMNESDAWFEEKQQQFENLDQQLRKLHASVEALVCHRKEL SANTAAFSAAM
 LGNSEDHTALSRALSQLAEVEEKIDQLHQEQAFADFYMFSELLSDYIRL IAAVKGVDFHRMKCWQKWEDA
 QITLLKKRETEAKLMVANKPDKIQQAKNEIREWEAKVQQGERDFEQISKIRKEVGRFEKERVKDFKAVI
 IKYLESLVQTQQQLIKYWEAFLPEAKAIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_026386

ORF Size: 1560 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_026386.1](#), [NP_080662.1](#)

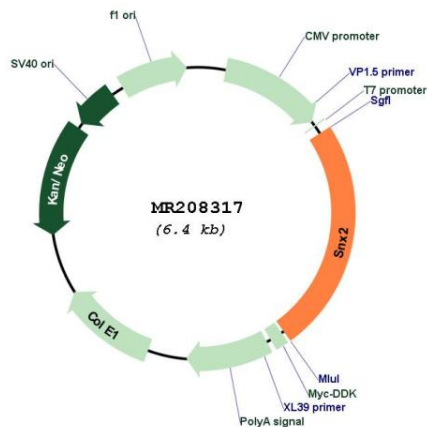
RefSeq Size: 2013 bp

RefSeq ORF: 1560 bp

Locus ID: 67804

UniProt ID: [Q9CWK8](#)

Cytogenetics:	18 D1
MW:	58.5 kDa
Gene Summary:	Involved in several stages of intracellular trafficking. Interacts with membranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)) or phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2). 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). Can sense membrane curvature and has in vitro vesicle-to-membrane remodeling activity. Required for retrograde endosome-to-TGN transport of TGN38. Promotes KALRN- and RHOG-dependent but retromer-independent membrane remodeling such as lamellipodium formation; the function is dependent on GEF activity of KALRN (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR208317