

## Product datasheet for **MG208317**

### **Snx2 (NM\_026386) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Snx2 (NM_026386) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Snx2
Synonyms:	0610030A03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208317 representing NM\_026386  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGCCGAGAGGGAGCCTCCTCCGCTGGGGACGTGAAGCCACAGACTTTGAGGAGCTGGAGGACG  
 GAGAGGACCTGTTCAACGACACCGTCTCCACCCTTGAGTCAAGTCCATCATCTCCGAACACGACCTCT  
 CCCTGCAGAAGATATCAGTGCAAACCTAATGGCTCCAAACCTGTAGAAGTTGCTCTAGACGATGACAGA  
 GAAGATCTTTTCGCAGAAGCCACAGAAGAGGTGCTCTGGACAGTCCCGAAAGAGAGCTCATCTGTCTCT  
 CCGAGCCGTCTCTGCGGTCAACCCTGTCACTCCACCACACTCATTGCTCCTAGAATCGAATCAAAGAG  
 TATCTCTGCTCCAGTCACTTTGACAGATCCAGGGACGAGATTGAAGAAGAAGCAAATGGAGATATTTTT  
 GATATAGAAATGGTGTGCAGATCCGGAAAAAGTTGGTATGGCATGAATGCTTACATGGCATATAGAG  
 TAACAACAAGACTTCTCTTTCCATGTTCAAGTGAAGTGAATTTTCAGTCAAAGAAGATTCACTGACTT  
 TCTTGGTTTGCATAGCAAATTAGCAAGCAAATATTTACATGTTGGTTACATCGTGCCACCCGCTCCAGAA  
 AAGAGTATAGTAGGTATGACCAAGGTCAAAGTAGGTAAAGAAGATTCATCATCCACTGAGTTGTAGAAA  
 AACGAAGAGCGGCACTGGAGAGGTATCTTCAGAGAACAGTAAAGCATCCGACATTGCTTCAGGATCCTGA  
 CTTAAGGCAGTTTTTGGAAAGCTCAGAGCTGCCGAGAGCAGTTAATACGCAGGCTCTGAGTGGAGCAGGA  
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 CATGGTTTGAAGAAAAGCAACAGCAATTTGAGAATCTTGACCAGCAACTTCGAAACTTCATGCCAGTGT  
 TGAAGCCTTGGTCTGTATAGAAAAGAACTTTAGCAACACAGCCGCTTTGCTAAGAGTGTGCCATG  
 CTAGGTAATCTGAGGACCACACTGCGCTCTCTAGAGCTTTGTCTCAGCTGGCAGAGGTTGAGGAGAAGA  
 TAGACCAGTTACATCAAGAGCAAGCTTTTGTGACTTTTACATGTTCTCAGAACTTCTTAGTGACTATGCT  
 TCGTCTCATTGCTGCAGTGAAAGGTGTGTTTACCATCGGATGAAGTGGTGGCAGAAATGGGAAGATGCT  
 CAAATTACCTTGCTCAAAAAACGTGAAACTGAGGCAAAATTTGATGGTTGCTAACAAGCCAGATAAAATTC  
 AACAAAGCTAAAAACGAGATAAGAGAGTGGGAGGCGAAAGTACAACAAGGAGAGAGAGATTTTGGAGCAT  
 CTCTAAAAACAATTCGAAAAGAAGTGGGAAGATTTGAGAAAAGACGAGTGAAGATTTTAAAGCTGTTATC  
 ATCAAGTACTGGAGTCATTAGTACAACACAGCAACAGCTGATAAAGTACTGGGAGGCATTCTACCTG  
 AAGCCAAAGCCATTGCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208317 representing NM\_026386  
 Red=Cloning site Green=Tags(s)

MAAEREPPPLGDVKPTDFEELDGEDLFTSTVSTLESSPSSPEPASLPAEDISANSNGSKPVEVVLDDDR  
 EDLFAEATEEVSLDPERELILSSEPSPAVTPVPTTLIAPRIESKISISAPVIFDRSRDEIEEEEANGDIF  
 DIEIGVSDPEKVGDMNAYMAYRVTTKTSLSMFSKSEFSVKRRFSDFLGLHSLKASKYLHVGYIVPPAPE  
 KSIVGMTKVKVKGEDSSSTEFVEKRRALERYLQRTVKHPTLLQDPDLRQFLESSELPRVNTQALSGAG  
 ILRMVNKAADAVNKMTIKMNESDAWFEEKQQQFENLDQQLRKLHASVEALVCHRKELSANTAFAKSAAM  
 LGNSEDHTALSRALSQLAEVEEKIDQLHQEQAFADFYMFSELLSDYIRLIAAVKGVDFHRMKCWQKWEDA  
 QITLLKKRETEAKLMVANKPDKIQQAKNEIREWEAKVQQGERDFEQISKTIRKEVGRFEKERVKDFKAVI  
 IKYLESLVQTQQQLIKYWEAFLPEAKAIA

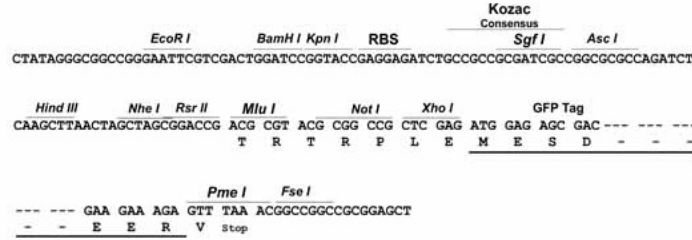
**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

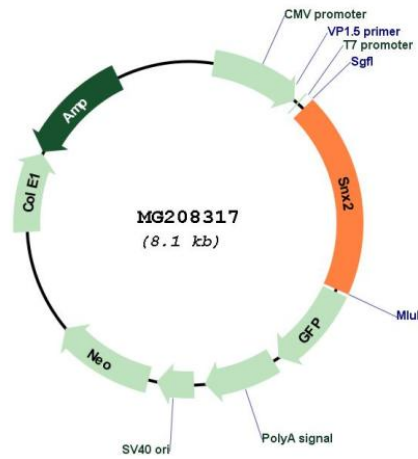
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_026386
<b>ORF Size:</b>	1557 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>RefSeq:</b>	<a href="#">NM_026386.1</a> , <a href="#">NP_080662.1</a>
<b>RefSeq Size:</b>	2013 bp
<b>RefSeq ORF:</b>	1560 bp
<b>Locus ID:</b>	67804
<b>UniProt ID:</b>	<a href="#">Q9CWK8</a>
<b>Cytogenetics:</b>	18 D1
<b>Gene Summary:</b>	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]