

## Product datasheet for **MG207515**

### **Snx17 (NM\_153680) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Snx17 (NM_153680) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Snx17
Synonyms:	5830447M19Rik; A1790646; b2b1625.1Clo; D5Ertd260e; mKIAA0064
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG207515 representing NM\_153680  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCACCTTTCCATTCTGAAACGGAGTCCCGCAGTGGGGACAGCGCGGCTCCGCCTACGTGGCCTATA  
 ACATTCACGTGAATGGAGTCTGCACTGTCGGGTGCGCTACAGCCAGCTTCTGGGCTGCACGAGCAGCT  
 TCGGAAGGAGTATGGGGCCAACGTGTTCTGCACTCCCGCCAAAGAAGCTGTTCTCTTTGACCCCTGCA  
 GAGGTGGAGCAGAGGAGAGAGCAGTTGGAGAAGTACATGCAAGCTGTTTCGGCAAGACCCATTGCTTGGGA  
 GCAGTGAGACTTTTAATAGCTTTCTACGTCGGGCCAACAGGAGACCCAAACAGGTGCCACAGAGGAGGT  
 TTCCTTGGAAAGTCTGCTCAGCAATGGACAGAAAGTTCTGGTAACTGTGCTAACTCTGACCAGACAGAA  
 GATGTCCTGGAGGCTGTGGCTGCAAAGCTGGATCTTCCAGATGACTTGATCGGATATTTTAGTCTCTTCC  
 TTGTTTCGAGAAAAAGAAGATGGAGCCTTTCTTTTGTACGGAAGCTGCAGGAGTTTGAAGTCCTTATGT  
 ATCTGTTACCAGTCTTCGGAGTCAAGAGTATAAGATTGTCTCAGAAAGATTATTGGGACTCTGCCTAT  
 GACGACGATGTATGGAGAACCAGGTTGGCCTGAACCTGCTTTATGCTCAGACGGTGTGACACATTGAGC  
 ATGGCTGGATCCTGGTACCAAAGAGCAGCACCCGGCAGCTCAAATCTCTGCAAGAGAAGGTCTCCAAAAA  
 GGAGTTCTTGGCGCTGGCCCAAACCTCTGCGGCACTATGGCTATCTGCGCTTTGATGCCTGTGTGGCTGAC  
 TTTCCAGAGAAGGATTGCCCTGTTGTGGTGGAGCGCAGGCAACAGTGGAGCTCAGTCTCCAGCTGCGACTAC  
 CAGGCCAGCAACTCCGTGAAGGCTCTTCCGTGTTACCCGAATGCGATGCTGGCGGGTCACTCTCTGT  
 GCCACTCCCTAGTGGGGCAGGACAGTCCAAGCCGGGTGCGGGTGAGGTTGCGCTGGAAGTGGCTTTT  
 GAATACCTCATGAGCAAGGACCCGCTACAGTGGGTACCATCACCAGCCACAGGCTATCATGATGAGCA  
 TCTGCCTGCAGTCCATGGTAGATGAGCTGATGGTGAAGAACTCTGGGGCAGTATCAGAAAGTGGCTGCG  
 CCGCGGGTGGGGGCACCCCTGAGACGTTTACAGACAGCCAGCAAGCAGTGAAGTCCCCACCATTGCTCGAG  
 TCACCAGACGCCAGCCGGGAGTCCATGGTGAAGTCTCAAGTAAACTGAGTGTGTGAGCTTGGGGGGA  
 TTGGCAGTCCCAGCACAGATGCCAGTGGCAGTGGCGTCCACGGCAATTTGCGCTTCGAGGCGATTGGAGA  
 TGAGGATCTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207515 representing NM\_153680  
 Red=Cloning site Green=Tags(s)

MHFSIPETESRSGDSGGSAYVAYNIHVNGVLHCRVRYSQLLGLHEQLRKEYGANVVPAPFPKFLFSLTPA  
 EVEQRREQLKYMQAVRQDPLLGSSETFNSFLRRAQQTQVPTTEVSLEVLLSNGQKVLVTVLTSQTE  
 DVLEAVAAKLDLPDDLIGYFSLFLVREKEDGAFSFVRKLQEFELPYVSVTSLRSQEKIVLRKSYWDSAY  
 DDDVMENRVGLNLLYAQTVSDIEHWILVTKEQHRQLKSLQEKVSKKEFLRLAQLRHYGYLRFDACVAD  
 FPEKDCPVVVSAGNSELQLRLPGQLREGSFRVTRMRCWRVTSVPLPSGGTSSPSRGRGEVRLLELAF  
 EYLMKDRQLQWVTITSPQAIMMSICLQSMVDELMVKKSGGSIRKMLRRRVGGTLRRSDSQQAVKSPPLLE  
 SPDASRESMVKLSKLSAVSLRIGISPSTDASASAVHGNFAFEGIGDEDL

**TRTRPLE** - GFP Tag - V

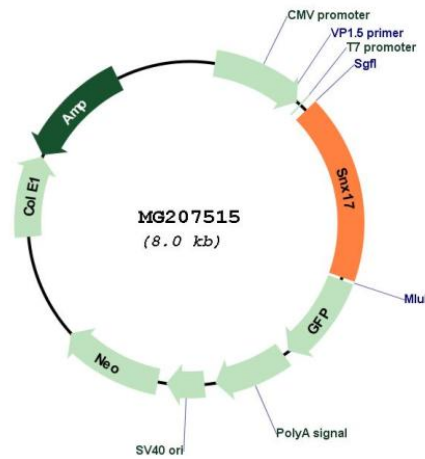
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_153680

**ORF Size:** 1410 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\\_153680.1](#)

**RefSeq Size:** 1941 bp

**RefSeq ORF:** 1413 bp

**Locus ID:** 266781

**UniProt ID:** [Q8BVL3](#)

**Cytogenetics:** 5 B1

**Gene Summary:** Critical regulator of endosomal recycling of numerous surface proteins, including integrins, signaling receptor and channels (PubMed:12169628, PubMed:16052210). Binds to NPxY sequences in the cytoplasmic tails of target cargos (By similarity). Associates with retriever and CCC complexes to prevent lysosomal degradation and promote cell surface recycling of numerous cargos such as integrins ITGB1, ITGB5 and their associated alpha subunits (By similarity). Also required for maintenance of normal cell surface levels of APP and LRP1 (PubMed:16052210, PubMed:18276590). Interacts with membranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)) (By similarity).[UniProtKB/Swiss-Prot Function]