

## Product datasheet for **RG218477**

### **SNX27 (NM\_030918) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SNX27 (NM_030918) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SNX27
Synonyms:	MRT1; MY014
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG218477 representing NM\_030918  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGACGAGGACGGGGAAGGGATTATCCCTCAGCCCTCACAGAACGGAGGTGGCGGCGCGGCCG  
 GGGGTCTGGCTCCACTGCGCCGGGAACGGCGCGGGGAGGCGCGGCCCGCGGGTCTGTCGCATCGT  
 CAAGTCCGAGTCCGGCTACGGCTTCAACGTGCGGGCCAAAGTGAGCGAGGGCGGGCAACTCGGGAGCATC  
 AACGGGGAGCTGTACGCGCCGCTGCAGCATGTGAGCGCCGTGCTGCCGGGGGGCGGCCGATCGGGCCG  
 GGTGCGCAAGGGGACCGCATCCTGGAGGTGAACCACGTGAATGTTGAGGGGGCGACACACAAGCAGGT  
 GGTGGACCTGATTCGAGCAGGCGAGAAGGAATTGATCTTGACAGTGTATCTGTACTCTCATGAGGCA  
 GATAACCTAGATCCCAGTGACGACTCGTTGGGACAATCATTTTATGATTACACAGAAAAGCAAGCAGTGC  
 CCATATCGGTCCCAGATACAAACATGTGGAGCAGAATGGTGAGAAGTTTGTGGTATATAATGTTTACAT  
 GGCAGGGAGGCAGCTGTGTTCTAAGCGGTACCGGGAGTTTGTATCCTACACCAGAACCTGAAGAGAGAG  
 TTTGCCAACTTTACATTTCTCGACTCCAGGGAAAGTGGCCATTTTCATTATCAGAAACAATAAGATG  
 CCCGACGTCGGGGATTGGAAGAATATCTAGAAAAGTGTGTTCAATACGAGTAATTGGTGAGAGTGACAT  
 CATGCAGGAATTCCTATCAGAATCCGATGAGAATAAATGGTGTGTCCGACGTAGAGCTGAGAGTAGCA  
 TTACCAGATGGAACAACGGTTACAGTCAGGGTTAAAAAGAACAGTACTACAGACCAAGTATATCAGGCTA  
 TCGCAGCAAAGGTTGGCATGGACAGTACGACAGTGAATTAATTTGCCTTATTTGAAGTGATCAGTCACTC  
 CTTTGTACGTAATTTGGCACCTAATGAGTTTCTCACAACTCTACATTCAGAATTATACATCAGCTGTG  
 CCAGGCACCTGCTTGACCATTGAAAAGTGGCTTTTACAACAGAAGAAGAAATTTCTTAAATGACAATG  
 ACCTTGCTGTTACCTACTTCTTTTATCAGGCAGTCGATGATGTGAAGAAAGTTACATCAAAGCAGAGA  
 AAAGTCCTATCAATTACAGAAGCTATACGAACAAGAAAAATGGTCATGTACCTCAACATGCTAAGGACT  
 TGTGAGGGCTACAATGAAATCATCTTCCCACTGTGCCTGTGACTCCAGGAGGAAGGGGACGTTATCA  
 CAGCCATCAGCATCACGCACTTTAACTGCATGCCTGCACTGAAGAAGGACAGCTGGAGAACCAGGTAAT  
 TGCATTTGAATGGGATGAGATGCAGCGATGGGACACAGATGAAGAAGGGATGGCCTTCTGTTTCGAATAT  
 GCACGAGGAGAGAAGAAGCCCCGATGGGTTAAATCTTACGCCATATTTCAATTACATGCATGAGTGCT  
 TCGAGAGGGTGTCTGCGAGCTCAAGTGGAGAAAAGGAATAT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG218477 representing NM\_030918  
 Red=Cloning site Green=Tags(s)

MADEDGEGIHPSAPHRNGGGGGGGSLHCAGNNGGGGGPRVVRIVKSESGYGFNVRGQVSEGGQLRSI  
 NGELYAPLQHVSAVLPGGAADRAGVRKGDRILEVNHVNVEGATHKQVVDLIRAGEKELILTVLSVPPHEA  
 DNLDPSDDSLGQSFYDYTEKQAVPISVPRYKHVEQNGEKFVVYNYVMAGRQLCSKRYREFAILHQNLRKRE  
 FANFTFPRLPWKWPFSLSEQQLDARRRGLLEEYLEKVC SIRVIGESDIMQEFLSESDENYNGVSDVELRVA  
 LPDGTTVTVRVKKNSTTDQVYQIAAKVGMSTTVNYFALFEVISHSFVRKLPAPNEFPKLYIQNYTSAV  
 PGTCLTIRKWLFTTEEEILLNDNDLAVTYFFHQAVDDVKKGYIKAEESYQLQKLYEQRMVMYLNMLRT  
 CEGYNEIIFPHCACDSRRKGHVITAI SITHFKLHACTEEGQLENQVIAFEWDEMQRWDTDEEGMAFCFEY  
 ARGEKKPRWVKIFTPYFNYMHECFERVFCELKWRKEEY

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_030918

**ORF Size:** 1584 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\\_030918.6](#)

**RefSeq Size:** 7085 bp

**RefSeq ORF:** 1587 bp

**Locus ID:** 81609

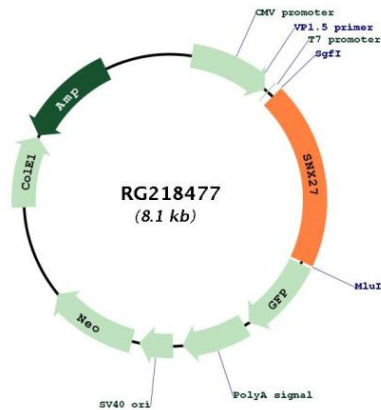
**UniProt ID:** [Q96L92](#)

**Cytogenetics:** 1q21.3

**Domains:** RA, PX

**Gene Summary:** This gene encodes a member of the sorting nexin family, a diverse group of cytoplasmic and membrane-associated proteins involved in endocytosis of plasma membrane receptors and protein trafficking through these compartments. All members of this protein family contain a phosphoinositide binding domain (PX domain). A highly similar protein in mouse is responsible for the specific recruitment of an isoform of serotonin 5-hydroxytryptamine 4 receptor into early endosomes, suggesting the analogous role for the human protein. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG218477