

Product datasheet for **MR218832**

Snx27 (NM_029721) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snx27 (NM_029721) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Snx27
Synonyms:	5730552M22Rik; ESTM45; ESTM47; R75405
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR218832 representing NM_029721
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGACGAGGACGGGAAGGTATTCACCCCTCAGCCCGCACCGAATGGAGCGCGCGGGGGT
 CTGGGCTCCACTGCGCCGGAACGGTGGCGGGGAGGCGCGGCCCGCGGTCGTGCGCATTGTCAAGTC
 CGAATCCGGCTACGGCTTCAACGTGCGGGGCAAGTGAGCGAGGGCGGGCAACTGCGGAGCATCAACGGG
 GAGCTGTACGCGCGCTGCAGCATGTGAGCGCCGTGCTGCCCGGGGGGCGGCCGACCGGGCGGGTGC
 GCAAAGGGGACCGCATCCTGGAGGTGAACGGCGTGAATGTTGAGGGGGCGACACACAAGCAGGTGGTGA
 CCTGATCCGAGCAGGCGAGAAGGAATTGATCTTGACAGTGTGTCTGTACCTCCTCATGAGGCTGATAAC
 CTAGATCCAGTGACGACTCCTGGGACAATCATTTTATGATTACACAGAAAAGCAAGCAGTGCCCATAT
 CGGTCCCACATACAAACATGTGGAGCAGAATGGTGAGAAAGTTTGGTATACAATGTTTACATGGCTGG
 GAGGCAGCTGTGTCTAAGCGGTACCGGAGTTGCCATACTGCACCAAAACCTGAAGAGAGAATTTGCC
 AACTTTACATTTCTCGACTTCCAGAAAAGTGGCCATTCTCATTATCAGAAACAATTGGATGCCCGGC
 GTCGTGGGTTGGAAGAATATCTAGAAAAGTGTGTTCAATCCGAGTCATTGGTGAGAGTGACATCATGCA
 GGAATTCCTGTCTGAGTCTGATGAGAATTAACAATGGTGTGTCTGATGTAGAACTGAGAGTAGCACTACCG
 GATGGAACAACGGTACTGTGACAGTAAAGAAGACAGTACTACAGACCAAGTGTACCAGGCTATTGCAG
 CAAAGGTTGGCATGGACAGTACAACAGTGAATTAATTTGCCTTATTTGAAGTGATCAATCATTCTTTGT
 ACGTAAGCTGGCACCTAATGAATTTCTCATAAACTCTACGTCCAGAACTATACATCAGCTGTGCCAGGC
 ACTTGCCTGACCATTGCAAGTGGCTCTTACAACAGAAGAAGAAGTCTCTTAAATGACAATGACCTTG
 CTGTTACGTACTCTTTTCATCAGGCTGTGATGATGTAAGAAGGTTACATTAAGCAGAAGAGAATC
 TTACCAGTTACAGAAGCTCCATGAACAAAGGAAGATGGTCACTACCTCAACATGCTAAGGACCTGCGAG
 GGCTACAATGAAATCATCTTCCCTCACTGTGCCTGTGACTCGAGGAGGAAGGGACATGTTATCACAGCCA
 TCAGCATCACGCACTTTAAACTTCATGCATGCACTGAAGAAGGGCAGCTGGAGAACCAGGTAATAGCGTT
 TGAATGGGATGAGATGCAGCGATGGGACACAGATGAAGAAGGAATGGCCTTCTGTTTTGAATATGCGCGA
 GGAGAGAAGAAGCCTCGATGGGTTAAAATCTTACACCATATTTCAATTACATGCATGAATGCTTTGAGA
 GGGTGTCTGCGAGCTCAAGTGGAGAAAAGAGGAATAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218832 representing NM_029721
 Red=Cloning site Green=Tags(s)

MADEDGEGIHPSAPHRNGGGGGSLHCAGNNGGGGGPRVVRIVKSESGYGFNVRGQVSEGGQLRSING
 ELYAPLQHVSAVLPGGAADRAGVRKGDRILEVNGVNEGATHKQVVDLIRAGEKELILTVLSVPPHEADN
 LDPSDDSLGQSFYDYTEKQAVPISVPTYKHVEQNGEKVVYVNYMAGRQLCSKRYREFAILHQNLRKREFA
 NFTFPRLPKWPFSLSEQQLDARRRGLLEEYLEKVCIRVIGESDIMQEFLESSENYNGVSDVELRVALP
 DGTVTTVRVKKNSTTDQVYQAIAAKVGMDSTTVNYFALFEVINHSFVRKLPNEFPKLYVQNYTSVPG
 TCLTIRKWLFTTEEEVLLNDNDLAVTYFFHQAVDDVKKGYIKAEESYQLQKLHEQRKMVMYLNMLRTCE
 GYNEIIFPHCACDSRRKGHVITAIISITHFKLHACTEEGQLENQVIAFEWDEMQRWDTDEEGMAFCFEYAR
 GEKKPRWVKIFTPYFNYMHECFERVFCELKWRKEEY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9038_h09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_029721

ORF Size: 1578 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_029721.2](#), [NP_083997.1](#)

RefSeq Size: 6259 bp

RefSeq ORF: 1581 bp

Locus ID: 76742

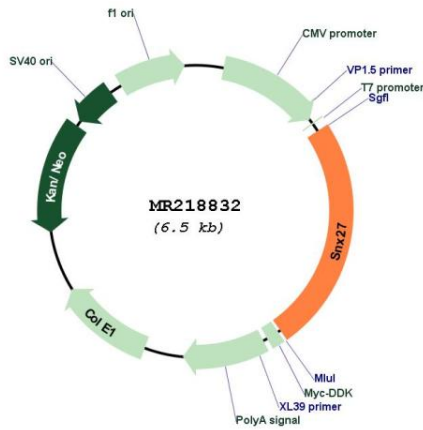
UniProt ID: [Q3UHD6](#)

Cytogenetics: 3 F2.1

MW: 60 kDa

Gene Summary: Involved in the retrograde transport from endosome to plasma membrane, a trafficking pathway that promotes the recycling of internalized transmembrane proteins. Following internalization, endocytosed transmembrane proteins are delivered to early endosomes and recycled to the plasma membrane instead of being degraded in lysosomes. SNX27 specifically binds and directs sorting of a subset of transmembrane proteins containing a PDZ-binding motif at the C-terminus: following interaction with target transmembrane proteins, associates with the retromer complex, preventing entry into the lysosomal pathway, and promotes retromer-tubule based plasma membrane recycling. SNX27 also binds with the WASH complex. Interacts with membranes containing phosphatidylinositol-3-phosphate (PtdIns(3P)). May participate in establishment of natural killer cell polarity. Recruits CYTIP to early endosomes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218832