

Product datasheet for **RR215439**

Snx17 (NM_001011981) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snx17 (NM_001011981) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Snx17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR215439 representing NM_001011981
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCACCTTTCCATTCTGAAACCGAGTCCCGCAGCGGGACAGCGCGGCTCCACCTACGTGGCCTATA
 ACATTCACGTGAATGGAGTCTGCACTGTCGTGTGCGCTACAGCCAGCTCCTGGGCTGCACGAGCAGCT
 TCGGAAGGAGTATGGGGCCAATGTGCTTCTGCAATCCCCCAAAGAAGCTTTTCTTTTACGCGCTGCA
 GAGGTAGAACAGAGGAGGGAACAGTTAGAGAAGTACATGCAAGCTGTTTCGGCAAGATCCATTGCTTGGGA
 GCAGTGAGACCTTAATAGCTTTCTACGTGGGCCCAACAGGAGACACAACAGGTCCCCACAGAGGAGGT
 TTCCTTGGAAAGTGTGCTCAGTGACGGACAGAAAGTTCTGGTCAATGTGCTAACTTCTGACCAGACGGAA
 GACGCTCTGGAGGCCGTGGCTGCAAAGCTGGATCTTCCAGATGACTTGATCGGATATTTTAGTCTCTTCC
 TTGTTTCGAGAAAAAGAAGATGGCGCCTTTCTTTTGTACGGAAGCTTCAGGAGTTTGAGCTGCCTTACGT
 ATCTGTACACAGTCTTCGGAGTCAAGAGTATAAGATCGTGCTCAGAAAGAGTTACTGGGACTCTGCCTAT
 GACGACGATGTCATGGAGAACCGGGTGGCCTGAACCTGCTTTATGCCAGACGGTGTGACGACATCGAGC
 ATGGCTGGATCCTGGTCAACCAAGGAGCAGCACCCAGAGCTCAAATCTCTGCAAGAGAAGGTCTCCAAAAA
 GGAGTTCTTGGCGCTGGCCAGACTCTGCGGCACTATGGCTATCTGCGCTTTGATGCCTGTGTGGCTGAC
 TTTCCGGAGAAGGACTGCCCTGTGTGGTCAAGTGCAGGCAACAGTGCAGTCCAGCTGCGACTCC
 CAGGCCAGCAGCTCCGTGAAGGCTCTTCCGGGTACCCGAATGCGGTGCTGGCGGGTCACTCTCTGT
 GCCACTCCCAGTGGGGGTACAAGCACTCAAGCCGGGTGCGGGTGAGGTACGCTGGAAGTGGCTTTT
 GAATACCTCATGAGCAAGGACCGGCTACAGTGGGTACCATCACAGCCACAGGCTATCATGATGAGCA
 TCTGCCTGCAGTCCATGGTAGATGAGCTGATGGTGAAGAAGTCTGGGGCAGTATCAGAAAGATGCTCGG
 TCGGAGGTGGGGGCAACCTGAGACGTTACAGACAGCCAGCAAGCAGTGAAGTCCCACCATTTGCTCGAA
 TCACCAGATGCCAGCGGAATCCATGGTCAAACCTCTCAAGTAAACTGAGTGCAGTGGGTTGCGGGGAA
 TTGGCAGTCCCAGCACAGATGCCAGTGCAGTCCCGTCCAGGCAATTTGCGCTTCGAGGCAATTGGAGA
 TGAGGATCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR215439 representing NM_001011981
 Red=Cloning site Green=Tags(s)

MHFSIPETESRSGDSGGSTYVAYNIHVNGVLHCRVRYSQLLGLHEQLRKEYGANVLPAPPPKFLSLTPA
 EVEQRRELEKYMQAVRQDPLLGSSETFNSFLRRAQQTQQVPTTEVSLEVLLSDGQKLVNVLTSQTE
 DVLEAVAAKLDLPDDLIGYFSLFLVREKEDGAFSFVRKLQEFELPYVSVTSLRSQYKIVLRKSYWDSAY
 DDDVMENRVGLNLLYAQTVSDIEHGWILVTKEQHRQLKSLQEKVSKKEFLRLAQLRHGYLRFDACVAD
 FPEKDCPVVVSAGNSELSLQLRPLPGQLREGSFRVTRMRCWRVTSVPLPSGGTSTPSRGRGEVRLLELAF
 EYLMSKDRLQWVTITSPQAIMMSICLQSMVDELMVKKSGGSIRKMLRRRVGGNLRSDSQAVKSPPLLE
 SPDASRESMVKLSKLSAVSLRIGISPSTDASASAVHGNFAFEGIGDEDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001011981

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_001011981.1](#), [NP_001011981.1](#)

RefSeq Size: 1944 bp

RefSeq ORF: 1413 bp

Locus ID: 298836

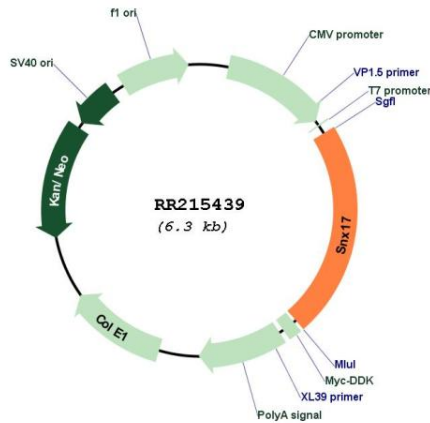
UniProt ID: [Q6AYS6](#)

Cytogenetics: 6q14

MW: 52.9 kDa

Gene Summary: Critical regulator of endosomal recycling of numerous surface proteins, including integrins, signaling receptor and channels. Binds to NPxY sequences in the cytoplasmic tails of target cargos. 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. Also required for maintenance of normal cell surface levels of APP and LRP1. Interacts with membranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR215439