

Product datasheet for **MR207515**

Snx17 (NM_153680) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snx17 (NM_153680) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Snx17
Synonyms:	5830447M19Rik; A1790646; b2b1625.1Clo; D5Erttd260e; mKIAA0064
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207515 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACCTTTCCATTCTGAAACGGAGTCCCGCAGTGGGGACAGCGCGGCTCCGCCTACGTGGCCTATA
 ACATTCACGTGAATGGAGTCTGCACTGTCGGGTGCGCTACAGCCAGTTCTGGGCTGCACGAGCAGCT
 TCGGAAGGAGTATGGGGCCAACGTGTTCTGCAATCCCCCAAAGAAGCTGTTCTTTGACCCCTGCA
 GAGGTGGAGCAGAGGAGAGAGCAGTTGGAGAAGTACATGCAAGCTGTTTCGGCAAGACCCATTGCTTGGGA
 GCAGTGAGACTTTTAATAGCTTTCTACGTGGGCCAACAGGAGACCCAAACAGGTGCCACAGAGGAGGT
 TTCCTTGGAAAGTCTGCTCAGCAATGGACAGAAAGTTCTGGTAACTGTGCTAACTCTGACCAGACAGAA
 GATGTCCTGGAGGCTGTGGCTGCAAAGCTGGATCTTCCAGATGACTTGATCGGATATTTTAGTCTCTTCC
 TTGTTTCGAGAAAAAGAAGATGGAGCCTTTCTTTTGTACGGAAGCTGCAGGAGTTTGAAGTGCCTTATGT
 ATCTGTTACCAGTCTTCGGAGTCAAGAGTATAAGATTGTGCTCAGAAAGAGTTATTGGGACTCTGCCTAT
 GACGACGATGTCATGGAGAACCAGGTTGGCCTGAACCTGCTTATGCTCAGACGGTGTGACACATTGAGC
 ATGGCTGGATCCTGGTACCAAAGAGCAGCACCCGGCAGCTCAAATCTCTGCAAGAGAAGGTCTCCAAAAA
 GGAGTTCTTGGCGCTGGCCCAAACCTCTGCGGCACTATGGCTATCTGCGCTTTGATGCCTGTGTGGCTGAC
 TTTCCAGAGAAGGATTGCCCTGTTGTGGTGAAGCAGGCAACAGTGAAGTCCAGCTGCGACTAC
 CAGGCCAGCAACTCCGTGAAGGCTCTTCCGTGTTACCCGAATGCGATGCTGGCGGGTCACTCCTCTGT
 GCCACTCCCTAGTGGGGCAGCAGCAGTCAAGCCGGGTGCGGGTGAAGTTGCGCTGGAAGTGGCTTTT
 GAATACCTCATGAGCAAGGACCCGCTACAGTGGGTCAACATCACCAGCCACAGGCTATCATGATGAGCA
 TCTGCCTGCAGTCCATGGTAGATGAGCTGATGGTGAAGAAATCTGGGGCAGTATCAGAAAGATGCTGCG
 CCGGCGGGTGGGGGCACCCCTGAGACGTTACAGACAGCCAGCAAGCAGTGAAGTCCCAACATTGCTCGAG
 TCACCAGACGCCAGCCGGGAGTCCATGGTGAAGTCTCAAGTAAACTGAGTGTGTGAGCTTGGGGGGA
 TTGGCAGTCCCAGCACAGATGCCAGTGCCAGTCCCGTCCAGGCAATTTGCGCTTCGAGGCAATTGGAGA
 TGAGGATCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207515 protein sequence
 Red=Cloning site Green=Tags(s)

MHFSIPETESRSGDSGGSAYVAYNIHVNGVLHCRVRYSQLLGLHEQLRKEYGANVVPFPPKFLSLTPA
 EVEQRREQLEKYMQAVRQDPLLGSSETFNSFLRRAQQTQVPTTEVSLEVLLSNGQKVLVTVLTSQTE
 DVLEAVAAKLDLPDDLIGYFSLFLVREKEDGAFSFVRKLEFELPYVSVTSLRSQEKIVLRKSYWDSAY
 DDDVMENRVGLNLLYAQTVSDIEHWILVTKEQHRQLKSLQEKVSKKEFLRLAQLRHYGYLRFDACVAD
 FPEKDCPVVVSAGNSELSLQLRLPGQQLREGSFRVTRMRCWRVTSSVPLPSGGTSSPSRGRGEVRELEAF
 EYLMSKDRLQWVTITSPQAIMMSICLQSMVDELMVKKSGSIRKMLRRRVGGTLRRSDSQAVKSPPLLE
 SPDASRESMVKLSKLSAVSLRIGISPSTDASASAVHGNFAFEGIGDEDL

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_153680

ORF Size: 1413 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

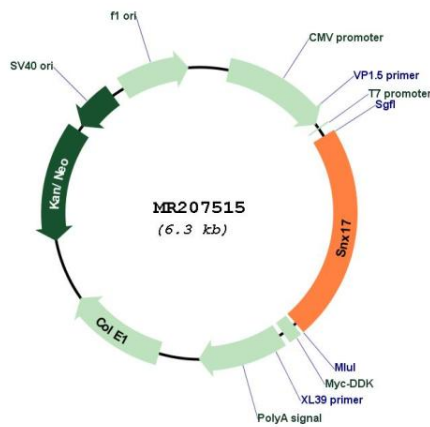
UniProt ID: [Q8BVL3](#)

Cytogenetics: 5 B1

MW: 52.8 kDa

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]

Product images:



Circular map for MR207515