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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; AI790646; b2b1625.1Clo; D5Ertd260e; mKIAA0064
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG207515 representing NM_153680
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCACTTTTCCATTCCTGAAACGGAGTCCCGCAGTGGGGACAGCGGCGGCTCCGCCTACGTGGCCTATA
ACATTCACGTGAATGGAGTCCTGCACTGTCGGGTGCGCTACAGCCAGCTTCTGGGGCTGCACGAGCAGCT
TCGGAAGGAGTATGGGGCCAACGTGGTTCCTGCATTCCCCCCAAAGAAGCTGTTCTCTTTGACCCCTGCA
GAGGTGGAGCAGAGGAGAGAGCAGTTGGAGAAGTACATGCAAGCTGTTCGGCAAGACCCATTGCTTGGGA
GCAGTGAGACTTTTAATAGCTTTCTACGTCGGGCCCAACAGGAGACCCAACAGGTGCCCACAGAGGAGGT
TTCCTTGGAAGTGCTGCTCAGCAATGGACAGAAAGTTCTGGTAACTGTGCTAACTTCTGACCAGACAGAA
GATGTCCTGGAGGCTGTGGCTGCAAAGCTGGATCTTCCAGATGACTTGATCGGATATTTTAGTCTCTTCC
TTGTTCGAGAAAAAGAAGATGGAGCCTTTTCTTTTGTACGGAAGCTGCAGGAGTTTGAACTGCCTTATGT
ATCTGTTACCAGTCTTCGGAGTCAAGAGTATAAGATTGTGCTCAGAAAGAGTTATTGGGACTCTGCCTAT
GACGACGATGTCATGGAGAACCGGGTTGGCCTGAACCTGCTTTATGCTCAGACGGTGTCAGACATTGAGC
ATGGCTGGATCCTGGTCACCAAAGAGCAGCACCGGCAGCTCAAATCTCTGCAAGAGAAGGTCTCCAAAAA
GGAGTTCTTGCGGCTGGCCCAAACTCTGCGGCACTATGGCTATCTGCGCTTTGATGCCTGTGTGGCTGAC
TTTCCAGAGAAGGATTGCCCTGTTGTGGTGAGCGCAGGCAACAGTGAGCTCAGTCTCCAGCTGCGACTAC
CAGGCCAGCAACTCCGTGAAGGCTCTTTCCGTGTTACCCGAATGCGATGCTGGCGGGTCACCTCCTCTGT
GCCACTCCCTAGTGGGGGCACGAGCAGTCCAAGCCGGGGTCGGGGTGAGGTTCGCCTGGAACTGGCTTTT
GAATACCTCATGAGCAAGGACCGGCTACAGTGGGTCACCATCACCAGCCCACAGGCTATCATGATGAGCA
TCTGCCTGCAGTCCATGGTAGATGAGCTGATGGTGAAGAAATCTGGGGGCAGTATCAGGAAGATGCTGCG
CCGGCGGGTGGGGGGCACCCTGAGACGTTCAGACAGCCAGCAAGCAGTGAAGTCCCCACCATTGCTCGAG
TCACCAGACGCCAGCCGGGAGTCCATGGTGAAACTCTCAAGTAAACTGAGTGCTGTGAGCTTGCGGGGGA
TTGGCAGTCCCAGCACAGATGCCAGTGCCAGTGCCGTCCACGGCAATTTCGCCTTCGAGGGCATTGGAGA
TGAGGATCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207515 representing NM_153680
Red=Cloning site Green=Tags(s)

MHFSIPETESRSGDSGGSAYVAYNIHVNGVLHCRVRYSQLLGLHEQLRKEYGANVVPAFPPKKLFSLTPA
EVEQRREQLEKYMQAVRQDPLLGSSETFNSFLRRAQQETQQVPTEEVSLEVLLSNGQKVLVTVLTSDQTE
DVLEAVAAKLDLPDDLIGYFSLFLVREKEDGAFSFVRKLQEFELPYVSVTSLRSQEYKIVLRKSYWDSAY
DDDVMENRVGLNLLYAQTVSDIEHGWILVTKEQHRQLKSLQEKVSKKEFLRLAQTLRHYGYLRFDACVAD
FPEKDCPVVVSAGNSELSLQLRLPGQQLREGSFRVTRMRCWRVTSSVPLPSGGTSSPSRGRGEVRLELAF
EYLMSKDRLQWVTITSPQAIMMSICLQSMVDELMVKKSGGSIRKMLRRRVGGTLRRSDSQQAVKSPPLLE
SPDASRESMVKLSSKLSAVSLRGIGSPSTDASASAVHGNFAFEGIGDEDL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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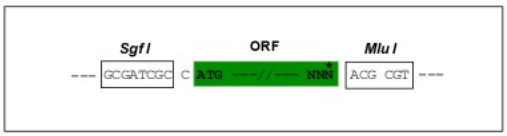
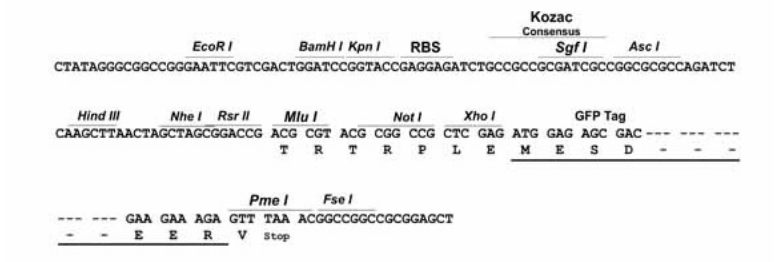
Cloning Scheme:





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

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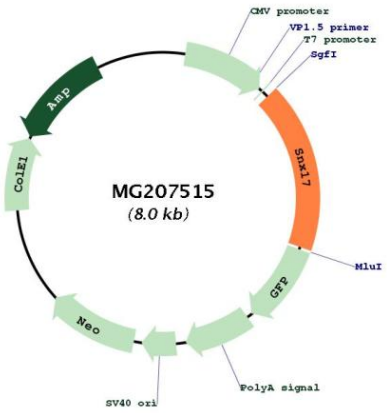
Cytogenetics: 5 B1

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]

Product images:



Circular map for MG207515

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