

Product datasheet for MR221413

Snx21 (NM_133924) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snx21 (NM_133924) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Snx21
Synonyms:	5730407K14Rik; AI481716
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221413 representing NM_133924 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCGCGGCTCCTACACGGCTGCGACACGCCCTGGCCAGCGATGGCCCCGGGAGGCGGGCGG
GCCAGAGGCCGAGCAGTTCCCTGAGAGCTCAGAGCTGGAGGACGATGACGCCGAGGGCCTGTCTCCCG
CCTCAGTGGCACCCTCAGCTTCACTAGTGGGAGGATGACCTGACGACGAAGACGAGGACGACGAGGCG
GGCCTCGACTCGCCGCCCTCAGGAGACGGGCATCGGGAGAAGACGCAGAACGAAGTCCCCACCTGATG
GACAACGGAGCAGTCAACTCCTGGCCCGCAGCTGCAGGATTTCTGAAAAAGTCTCGGAACACCCTAGT
TCCACAGAGGCTGCTCTTTGAGGTGACCAGCGCCAATGTTGTCAAAGACCCTCCCTCCAAGTACGTGCTC
TACACCCTCGCCGTGATGGGCCAGGGCCACCAGATCGCCAGCCAGCCAGATCTCTCGCCGATACTCGG
ACTTTGAGCGGCTGCACAGAAACCTGCAGCGGCAATTCGGGGCCCCATGTCTGCCATCTCCTTTCCCGG
TAAGCGCTGCGCCGAACTTTACTGCAGAAACCATGCCCCTCGCAGCAGGGCCTTTGAACAGTTTTTG
GGCCACCTGCAGGAGTCCAGAGCTACGCCAAGCTCCGACCTGCAGGACTTCTTTGTGCTGCCGAGT
TGCGGCGGCACAGAGCCTCACCTGCACTGGTCTTTATCGTGAGGCTCTGGCATTGTGGGCCAACGCCTG
GCAGCTGCAGACCCAGTTGGGCACCCATCTGGCCAGACCGTCCCCTGTTGACTCTGGCTGGCTGGCC
GTGTGCCATCAGGAGCTGGAGATCCCGGGAAGCCCGAGCCTGCAGTGAGAAGGCCCTGCAGCTGCTGG
GGGACAAGAGACCCCATCCTTTCTGGCACCTTTCTTGAGGCCATGTCCGGCTCTCCTGGCGCCTGGG
CCTGGACAAACGGCAGTCGGAGGCCAGCTCCAGGCACTACAGGAAGCAGGCCTTACCTCTACCCACCG
CCCAGCCTCAAGGAGCTGCTCATCAAAGAGGTGCTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR221413 representing NM_133924
Red=Cloning site Green=Tags(s)

MASRLLRHLRHALASDGPGEAAAGPEAEQFPESSELEDDDAEGLSSRLSGTLSFTSAEDDPDEDEDEDEA
 GLDSPPSGDGASGEDAERSPPPDGQRSSQLLARQLQDFWKKSRNTLVPQRLLFEVTSANVVKDPPSKYVL
 YTLAVMGPDPDRQPAQISRRYSDFERLHRNLQRQFRGPMASISFPRKLRNFTAETIARRSRAFEQFL
 GHLQAVPELRQAPDLQDFVFLPELRRASLTCTGLYREALALWANAWQLQTQLGTPSGPDRPLLTLAGLA
 VCHQELEDPGEARACSEKALQLLDGDKRPHFLLAPFLEAHVRLSWRLGLDKRQSEAQLQALQEAGLTSTPP
 PSLKELLIKEVLD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9046_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_133924

ORF Size: 1089 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_133924.3](#), [NP_598685.2](#)

RefSeq Size: 1520 bp

RefSeq ORF: 1092 bp

Locus ID: 101113

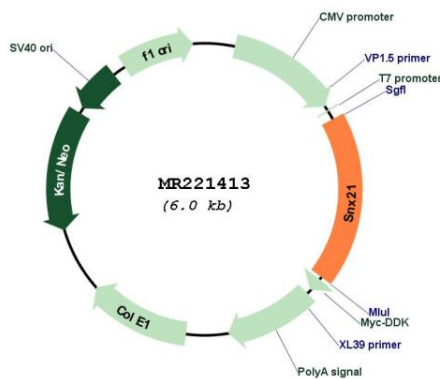
UniProt ID: [Q3UR97](#)

Cytogenetics: 2 H3

MW: 40.8 kDa

Gene Summary: Binds to membranes enriched in phosphatidylinositol 3-phosphate (PtdIns(P3)) and phosphatidylinositol 4,5-bisphosphate (PubMed:25882846). May be involved in several stages of intracellular trafficking.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221413