

Product datasheet for **MG221413**

Snx21 (NM_133924) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Snx21 (NM_133924) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Snx21
Synonyms: 5730407K14Rik; AI481716
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG221413 representing NM_133924
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTCGCGGCTCCTACACGGCTGCGACACGCCCTGGCCAGCGATGGCCCCGGGGAGGCGGGCGG
 GCCCAGAGGCCGAGCAGTTCCCTGAGAGCTCAGAGCTGGAGGACGATGACGCCGAGGGCCTGTCTCCCG
 CCTCAGTGGCACCCCTCAGCTTCACTAGTGGGAGGATGACCTGACGACGAAGACGAGGACGACGAGGCG
 GGCTCGACTCGCCGCCCTCAGGAGACGGGCATCGGGAGAAGACGCAGAACGAAGTCCCCACCTGATG
 GACAACGGAGCAGTCAACTCCTGGCCCGCAGCTGCAGGATTTCTGAAAAAGTCTCGGAACACCCTAGT
 TCCACAGAGGCTGCTCTTTGAGGTGACCAGCGCCAATGTTGTCAAAGACCCTCCCTCCAAGTACGTGCTC
 TACACCCTCGCCGTGATGGGCCAGGGCCACCAGATCGCCAGCCAGCCAGATCTCTCGCCGATACTCGG
 ACTTTGAGCGGCTGCACAGAAACCTGCAGCGGCAATTCGGGGCCCCATGTCTGCCATCTCTTTCCCGG
 TAAGCGCTGCGCCGGAACCTTACTGCAGAAACATTGCCCGTCGCAGCAGGGCCTTTGAACAGTTTTTG
 GGCCACCTGCAGGAGTCCAGAGCTACGCCAAGCTCCGACCTGCAGGACTTCTTTGTGCTGCCGAGT
 TGCGGCGGCACAGAGCCTCACCTGCACTGGTCTTTATCGTGAGGCTCTGGCATTGTGGGCCAACGCCTG
 GCAGCTGCAGACCCAGTTGGGCACCCATCTGGCCAGACCGTCCCCTGTTGACTCTGGCTGGCTGGCC
 GTGTGCCATCAGGAGCTGGAGATCCCGGGAAGCCCGAGCCTGCAGTGAGAAGGCCCTGCAGCTGCTGG
 GGGACAAGAGACCCCATCCTTTCCTGGCACCTTTCTTGAGGCCATGTCCGGCTCTCTGGCGCCTGGG
 CCTGGACAAACGGCAGTCGGAGGCCAGCTCCAGGCACTACAGGAAGCAGGCCTTACCTTACCCACCG
 CCCAGCCTCAAGGAGCTGCTCATCAAAGAGGTGCTGGAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG221413 representing NM_133924
 Red=Cloning site Green=Tags(s)

MASRLLRHLRHALASDGPGEAAAGPEAEQFPESSELEDDDAEGLSSRLSGTLSFTSAEDDPDEDEDEDEA
 GLDSPPSGDGASGEDAERSPPPDGQRSSQLLARQLQDFWKKSRNTLVPQRLLFEVTSANVVKDPPSKYVL
 YTLAVMGPGPPDRQPAQISRRYSDFERLHRNLQRQFRGPMASISFPRKRLRRNFTAETIARRSRAFEQFL
 GHLQAVPELRQAPDLQDFVLPVLRRAQSLTCTGLYREALALWANAWLQTQLGTPSGPDRPLLTLAGLA
 VCHQELEDPGEARACSEKALQLLDGDKRPHFPLAPFLEAHVRLSWRLGLDKRQSEAQLQALQEAGLTSTPP
 PSLKELLIKEVLD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

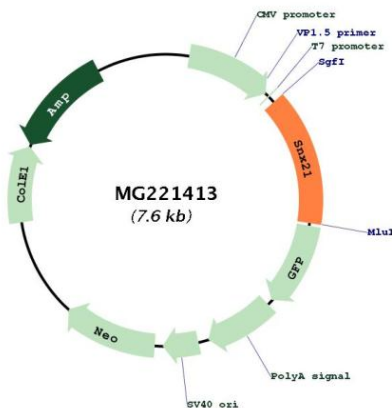
Locus ID: 101113

UniProt ID: [Q3UR97](#)

Cytogenetics: 2 H3

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 MG221413