

Product datasheet for **RC201621**

SNX2 (NM_003100) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SNX2 (NM_003100) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SNX2
Synonyms:	TRG-9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC201621 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCCGAGAGGGAACCTCCTCCGCTGGGGACGGGAAGCCACCGACTTTGAGGATCTGGAGGACG
 GAGAGGACCTGTTCAACGACTGTCTCCACCCTAGAGTCAAGTCCATCATCTCCAGAACCAGCTAGTCT
 TCCTGCAGAAGATATTAGTGCAAACCTCAATGGCCAAAAACCCACAGAAGTTGTATTAGATGATGACAGA
 GAAGATCTTTTTGCAGAAGCCACAGAAGAAGTTTCTTTGGACAGCCCTGAAAGGGAACCTATCCTATCCT
 CGGAACCTTCTCCTGCAGTACACCTGTCACTCTACTACACTCATTGCTCCTAGAATTGAATCAAAGAG
 TATGTCTGCTCCCGTGATCTTTGATAGATCCAGGGAAGAGATTGAAGAAGAAGCAATGGAGACATTTTT
 GACATAGAAATTTGGTGTATCAGATCCAGAAAAAGTTGGTATGGCATGAATGCCTATATGGCATATAGAG
 TAACAACAAGACATCTTTCCATGTTTCAAGTGAAGTGAATTTTCAAGTAAAAGAAGATTACAGCGACTT
 TCTTGGTTTGCACAGCAAATTAGCAAGCAAATATTTACATGTTGGTTATATTGTGCCACCGACTCCAGAA
 AAGAGTATAGTAGGGATGACCAAGGTCAAAGTGGGTAAAGAAGACTCATCATCCACTGAGTTTGTAGAAA
 AACGGAGAGCAGCTCTTGAAAGGTATCTTCAAAGAACAGTAAAACATCCAACTTTACTACAGGATCCTGA
 TTTAAGGCAGTTCTTGAAAGTTTCAAGAGCTGCCTAGAGCAGTTAATACACAGGCTCTGAGTGGAGCAGGA
 ATATTGAGGATGGTGAACAAGGCTGCCGACGCTGTCAACAAAAAGACAATCAAGATGAATGAATCGGATG
 CATGGTTTGAAGAAAAGCAGCAGCAATTTGAGAATCTGGATCAGCAACTTAGGAACTTCATGTCAGTGT
 TGAAGCCTTGGTCTGTCATAGAAAAGAACTTTAGCAACACAGCTGCCTTTGCTAAAAGTGTGCCATG
 TTAGGTAATCTGAGGATCACTGCTTTATCTAGAGCTTTGTCTCAGCTTGCAGAGTTGAGGAGAAGA
 TAGACCAGTTACATCAAGAACAAGCTTTTGTGACTTTTTATATGTTTTTCAGAACTACTTAGTGCATAC
 TCGTCTTATTGCTGCAGTAAAAGGTGTGTTTACCATCGAATGAAGTGTGGCAGAAATGGGAAGATGCT
 CAAATTACTTTGCTCAAAAAACGTGAAGCTGAAGCAAAAAATGATGGTTGCTAACAAACCAGATAAAAATC
 AGCAAGCTAAAAATGAAATAAGAGAGTGGGAGGCGAAAAGTGAACAAGGGGAAAGAGATTTTGAACAGAT
 ATCTAAAACGATTCGAAAAGAAGTGGGAAGATTTGAGAAAAGAACGAGTGAAGGATTTTAAAACCGTTATC
 ATCAAGTACTTAGAATCACTAGTTCAAACACAACAACAGCTGATAAAAATACTGGGAAGCATTCTACCTG
 AAGCCAAAGCCATTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201621 protein sequence
 Red=Cloning site Green=Tags(s)

MAAEREPPPLGDGKPTDFEDLEDGEDLFTSTVSTLESSPSSPEPASLPAEDISANSNGPKPTEVVLDDDR
 EDLFAEATEEVSLDSPEREPILSSEPSAVTPVPTTLIAPRIESKMSAPVIFDRSREEIEEEANGDIF
 DIEIGVSDPEKVGDMNAYMAYRVTTKTSLSMFSKSEFSVKRRFSDFLGLHSLKASKYLHVGYIVPPAPE
 KSIVGMTKVKVKGEDSSSTEFVEKRRALERYLQRTVKHPTLLQDPDLRQFLESSELPRAVNTQALSGAG
 ILRMVNKAADAVNKMTIKMNESDAWFEEKQQQFENLDQQLRKLHVSVEALVCHRKEL SANTAAFASAM
 LGNSEDHTALSRALSQLAEVEEKIDQLHQEQAFADFYMFSELLSDYIRLIAAVKGVDFHRMKCWQKWEDA
 QITLLKKREAEAKMMVANKPDKIQQAKNEIREWEAKVQQGERDFEQISKIRKEVGRFEKERVKDFKTVI
 IKYLESLVQTQQQLIKYWEAFLPEAKAIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6004_a02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_003100

ORF Size: 1557 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_003100.4](#)

RefSeq Size: 6559 bp

RefSeq ORF: 1560 bp

Locus ID: 6643

UniProt ID: [O60749](#)

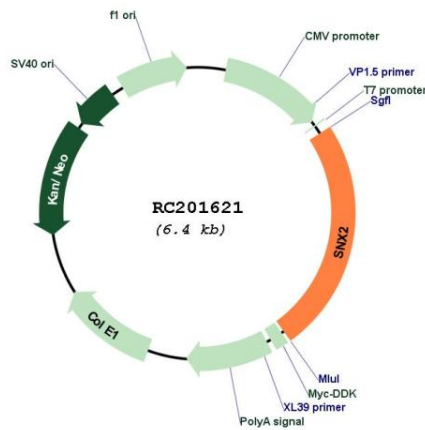
Cytogenetics: 5q23.2

Domains: PX, Sorting_nexin

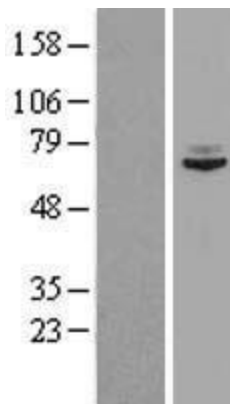
MW: 58.5 kDa

Gene Summary: This gene belongs to the sorting nexin family whose members contain the phosphoinositide-binding phox (PX) domain. The encoded protein is a component of the retromer complex which plays a role in protein sorting in the endocytic pathway. This protein may form oligomeric complexes with other family members. Alternate splicing results in multiple transcript variants of this gene. Pseudogenes associated with this gene are located on chromosomes 1 and 7. [provided by RefSeq, May 2013]

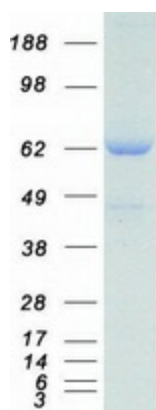
Product images:



Circular map for RC201621



Western blot validation of overexpression lysate (Cat# [LY401081]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201621 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNX2 protein (Cat# [TP301621]). The protein was produced from HEK293T cells transfected with SNX2 cDNA clone (Cat# RC201621) using MegaTran 2.0 (Cat# [TT210002]).