

Product datasheet for **RC224303**

SNX12 (NM_013346) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SNX12 (NM_013346) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SNX12
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC224303 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGACACGGCAGTAGCTGATACCCGGCGCCTTAACCTCGAAGCCGCAGGACCTGACCGACGCTTACG
GGCCGCCAAGTAACTTCTGGAGATCGACATCTTAATCCTCAGACGGTGGGCGTGGGACGCGCGCCTT
CACCACCTATGAGGTTTCGCATGCGGACAAAACCTACCTATCTTCAAGCTAAAGGAGTCTCGGTACGGCGG
CGCTACAGTGACTTTGAGTGGCTGAAAAATGAGCTGGAGAGAGATAGCAAGATTGTAGTACCACCCTGC
CTGGGAAAGCCTTGAAGCGCAGCTCCCTTTCCGAGGAGATGAAGGGATCTTTGAGGAGTCTTTTCATCGA
AGAAAGGAGGCAGGGCCTCGAGCAGTTTATTAACAAAATTGCTGGGCACCCACTGGCTCAGAATGAACGC
TGCTACACATGTTCTGCAAGAGGAGGAATTGACAGGAACTACGTCCCGGGAAGGTGCGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224303 protein sequence
Red=Cloning site Green=Tags(s)

MSDTAVADTRRLNSKPQDLTDAYGPPSNFLEIDIFNPQTVGVGRARFTTYEVRMRTNLPFIKFKESCVR
RYSDFEWLKNELERDSKIVVPLPGKALKRQLPFRGDEGIFEESEFIEERRQGLEQFINKIAGHPLAQNER
CLHMFLQEEAIDRNYVPGKVRQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6448_a01.zip

Restriction Sites: SgfI-MluI



[View online >](#)

Cloning Scheme:


ACCN: NM_013346

ORF Size: 486 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_013346.4](#)

RefSeq Size: 2416 bp

RefSeq ORF: 489 bp

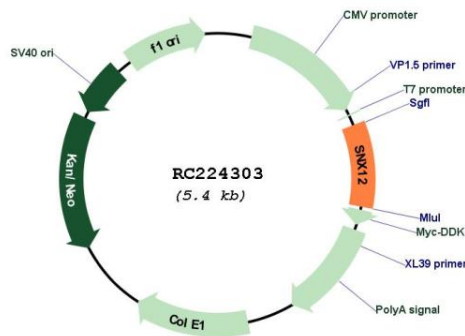
Locus ID: 29934

UniProt ID: [Q9UMY4](#)

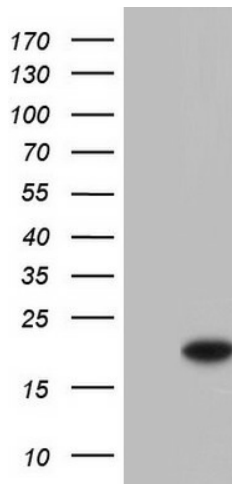
Cytogenetics: Xq13.1
Domains: PX
MW: 18.9 kDa

Gene Summary: This gene encodes a member of the sorting nexin family. Members of this family contain a phox (PX) domain, which is a phosphoinositide binding domain, and are involved in intracellular trafficking. This protein does not contain a coiled coil region, like some family members. A similar protein in mouse may be involved in regulating the neurite outgrowth. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]

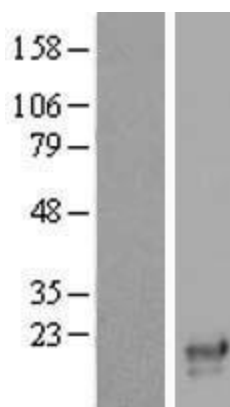
Product images:



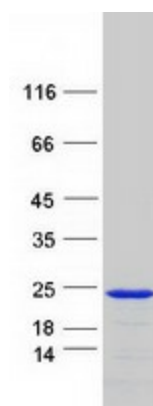
Circular map for RC224303



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SNX12 (Cat# RC224303, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SNX12 (Cat# [TA804650]). Positive lysates [LY415650] (100ug) and [LC415650] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415650]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224303 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNX12 protein (Cat# [TP324303]). The protein was produced from HEK293T cells transfected with SNX12 cDNA clone (Cat# RC224303) using MegaTran 2.0 (Cat# [TT210002]).