

Product datasheet for **RC205869**

SNX4 (NM_003794) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SNX4
Synonyms:	ATG24B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205869 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCAGGCACCTCCGGACCCGAGCGGCAGCTCCAGCCGGCGCCCTTGGAGCCGCTGGGCTCCCCAG
 ACGCTGGGCTGGGGCTGCGGTGCGCAAGGAAGCGGAGGGGGCCGAGAAGAGAGCTCTGGGGTTCGACAC
 GATGACACACAATAATTTTTGGTTGAAGAAGATAGAAATCAGTGTTCAGAAGCAGAAAAACGAACGGA
 AGAAATGCCATGAACATGCAAGAAACATATACTGCTTACCTCATTGAAACAAGGTCAGTTGAACATACCG
 ATGGTCAGAGTGTCTAACAGACTCACTATGGCGGCGATATAGTGAATTTGAGTTGTTGAGAAGCTACCT
 TTTAGTTTACTATCCACATATTGTTGTGCCACCTCTGCCAGAAAAACGGGCAGAAATTTGTTTGGCATAAA
 CTCTCTGCTGACAACATGGATCCAGATTTTGTGGAGAGGCGACGATTGGTTTAGAAAACTTTCTCTTGA
 GGATTGCTTCACATCCCATCCTTTGTAGAGACAAAATCTTCTATCTGTTTTAACACAGGAAGGTAAGT
 GAAGGAGACTGTGAATGAACTGGGTTTCAGCTGAAGGCAGACTCCAGGTTAAAAGCGCTTAATGCAACA
 TTCAGAGTGAAAAACCCAGACAAGAGATTTACTGACCTTAAGCACTATAGTGATGAAGTGCAGTCTGTCA
 TCTCACATCTTCTTCGAGTCAGAGCTAGAGTAGCAGATCGACTCTATGGTGTATATAAAGTACATGGGAA
 TTATGGTCGAGTTTTAGTGAATGGAGTGCCATAGAAAAAGAAATGGGTGATGGACTGCAGAGTGTGGT
 CATCATATGGATGTGTATGCATCTTCTATTGATGATATTTTGAAGATGAAGAACATTATGCAGATCAGT
 TAAAAGAGTATCTTTTTATGCAGAAGCATTGCGGGCTGTGTGCAGGAAACATGAACCTATGCAGTATGA
 CTTGGAGATGGCTGCTCAGGACTTAGCATCCAAGAAGCAGCAGTGTGAGGAACGGTAAGTGGGACTGTG
 AGAACATTCTCTTTGAAGGGAATGACTACCAAGCTCTTTGGTCAAGAACTCCAGAGCAGAGAGAAGCCA
 GAATAAAGGTGCTAGAAGAACAAATAAATGAAGGAGAACACAGCTAAAGTCTAAAAATCTGGAAGGCAG
 AGAATTTGTGAAAAACGCATGGGCTGATATTGAACGCTTCAAAGAACAAAAGAACCGAGACTTAAAGGAG
 GCCCTCATAAGCTATGCAGTCATGCAGATCAGTATGTGCAAAAAGGGAATTCAAGTTTGGACCAATGCTA
 AGGAATGCTTTAGCAAGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205869 protein sequence
 Red=Cloning site Green=Tags(s)

MEQAPPDPERQLQPAPLEPLGSPDAGLGAAVGKEAEGAGEESSGVDTMTHNFWLKKIEISVSEAEKRTG
 RNAMNMQETYTAYLIETRSVEHTDGQSVLTDLSWRRYSEFELLRSYLLVYYPHIVVPLPEKRAEFVWHK
 LSADNMDPDFVERRRIGLENFLLRIASHPILCRDKIFYLFLTQEGNWKETVNETGFQLKADSRLKALNAT
 FRVKNPDKRFTDLKHYSDELQSVISHLLRVRARVADRLYGVIKVGNYGRVFSEWSAIEKEMGDGLQSAG
 HHMDVYASSIDDEEHYADQLKEYLFYAEALRAVCRKHELMQYDLEMAAQDLASKKQCEELVTGT
 RTFSLKGMTTKLFGQETPEQREARIKVLLEEQINEGEQQLKSKNLEGREFVKNWADIERFKEQKNRDLKE
 ALISYAVMQISMCKKGIQVWNAKECFSKM

TRTRPLE**QKLISEEDLAANDILDYKDDDDKV**

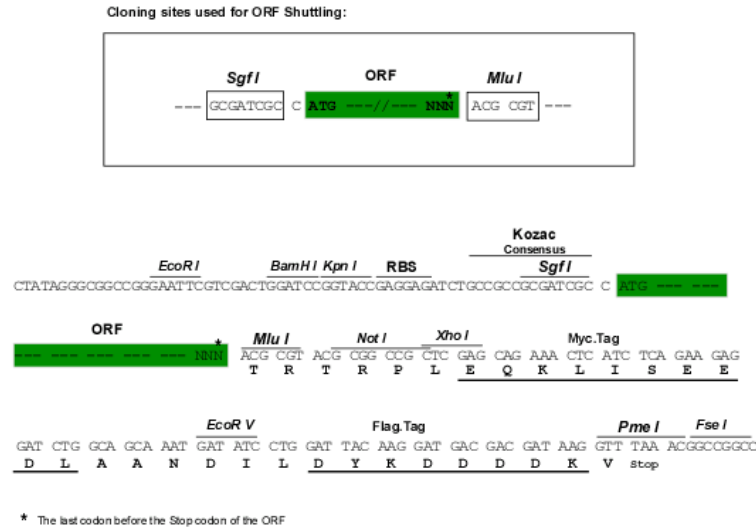
Chromatograms:

https://cdn.origene.com/chromatograms/mk6673_h03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN:	NM_003794
ORF Size:	1350 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_003794.4
RefSeq Size:	2534 bp
RefSeq ORF:	1353 bp
Locus ID:	8723

UniProt ID: [O95219](#)

Cytogenetics: 3q21.2

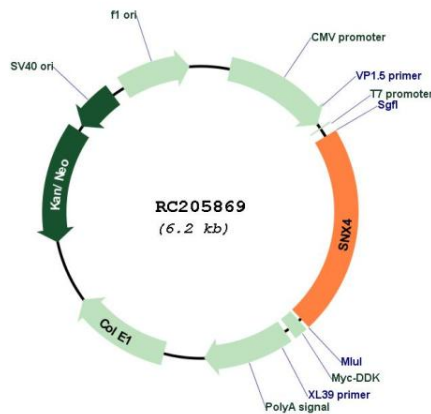
Domains: PX

Protein Families: Druggable Genome

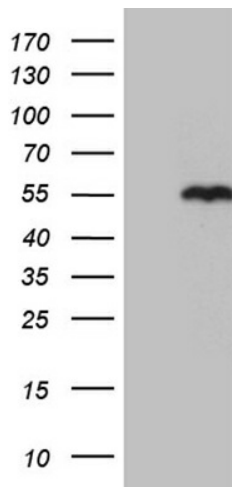
MW: 51.9 kDa

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 associated with the long isoform of the leptin receptor and with receptor tyrosine kinases for platelet-derived growth factor, insulin, and epidermal growth factor in cell cultures, but its function is unknown. This protein may form oligomeric complexes with family members. Two transcript variants, one protein coding and the other non-protein coding, have been found for this gene. [provided by RefSeq, Nov 2012]

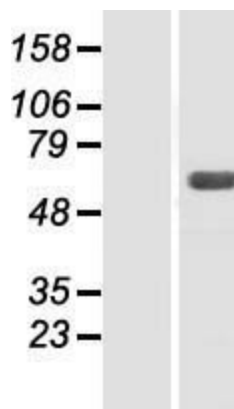
Product images:



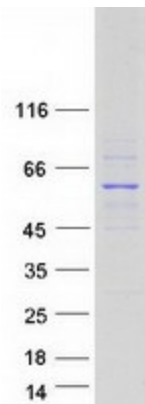
Circular map for RC205869



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SNX4 (Cat# RC205869, 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-SNX4 (Cat# [TA811827])(1:2000). Positive lysates [LY418429] (100ug) and [LC418429] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418429]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205869 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNX4 protein (Cat# [TP305869]). The protein was produced from HEK293T cells transfected with SNX4 cDNA clone (Cat# RC205869) using MegaTran 2.0 (Cat# [TT210002]).