

Product datasheet for **RC202822**

SH3PX1 (SNX9) (NM_016224) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH3PX1 (SNX9) (NM_016224) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SH3PX1
Synonyms:	SDP1; SH3PX1; SH3PXD3A; WISP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC202822 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCACCAAGGCTCGGTTATGTATGATTTTGTCTGCTGAACCTGGAATAATGAACTGACGGTTAATG
 AAGGAGAAATCATCAAAATCACAATCCGGATGTAGGTGGAGGATGGCTGGAAGGAAGAAACATCAAAGG
 AGAACGAGGGCTGGTTCCACAGACTACGTTGAAATTTTACCCAGTGATGGAAGAGATCAATTTTCTTGT
 GGAATTCAGTGGCTGACCAAGCCTTCCTTGATTCTCTCAGCCAGCACAGCTCACGCCAGTTCGTCGG
 CTGCCAGCAACAATCACCAGGTTGGCAGTGGCAATGACCCTGGTCAGCCTGGAGTGCCTCCAAATCTGG
 GAACTGGGAAAGCTCAGAAGGCTGGGGGGCCAGCCAGAGGGGCTGGAGCCAAAGAAACAAACACT
 CCCAACAACTGGGACTGCCTTCGGCCACCCAGGCCACCAAGGACCAGCAACTGGTGATGATGATG
 ACTGGGATGAAGACTGGGATGGGCCAAATCCTCTTCTACTTTAAGGATTCAGAGTCAGCTGATGCAGG
 CGCGCTCAGCGAGGAAACAGTCGTGCTAGTTCCTCATCCATGAAAATCCCTTAACAAATTTCTGGA
 TTTGCGAAACCTGGCACGGAACAGTATTTGTTGGCCAAACAACAGCAAAACCCAAAGAGAAAATCCCA
 TCATTGTTGGAGATTATGGCCCAATGTGGGTTTACCTACCTCTACTTTTACTGTGTGGTATGAGATCC
 CAGGAAAGGCTCCAAATGTATGGTCTAAAGAGCTACATCGAATATCAGCTAACCTACTAACACTAAT
 CGATCTGTAACACAGGTATAAGCACTTTGACTGGTTATATGAGCGTCTCCTGGTTAAGTTTGGGTCAG
 CCATTCCAATCCCTTCTCTCCAGACAAACAAGTCACAGGCCGCTTTGAAGAGGAATTTATCAAATGCG
 CATGGAGAGACTTCAGGCCTGGATGACCAGGATGTGTCCGATCCAGTAACTCAGAAAGTGAAGTTTTC
 CAGCAGTTCCTAAATTTCCGAGATGAGAAGGAATGGAAGGCTGGAAGAGGAAGGCCGAGAGAGATGAGC
 TGGCGGGAGTCATGATATTTTCCACCATGGAACAGGACCTGACTTGGACTTAGTAAATAGAGCA
 GAAGTGCAGGCTGTGGGAAAGTTCACCAAGGCCATGGATGACGCGTGAAGGAGCTGCTGACGGTGGGG
 CAGGAGCACTGGAAGCGCTGCACGGGCCATTACCCAAGGAATATCAGAAGATAGGAAAGCCTTGCAGA
 GTTTGGCCACAGTGTTCAAGTTCAGTGGCTATCAAGGTGAAACAGATCTCAATGATGCAATAACAGAAGC
 AGGAAAGACTTATGAAGAAATTGCCAGTCTCGTGGCAGAACAGCCAAAGAAAGATCTCCATTTCTGATG
 GAATGTAATCACGAGTATAAAGTTTTCTTGGCTGCTTCCCTGACATCATTGGCACTCACAGGGAGCAA
 TAGAAAAAGTGAAGAAAGTGACAACTAGTTGCAACAAGTAAATCACCTACAAGACAAACAGAACAT
 GGTGAAGAGAGTCAGCATCATGTCTTACGCGTTGCAAGCTGAGATGAATCACTTTACAGTAACCGGATC
 TATGATTACAACAGTGTATCCGCTGTACCTGGAGCAGCAAGTGAATTTTACGAAACGATTGCAGAAA
 AGCTGAGGCAGGCCCTCAGCCGCTTCCAGTGATG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202822 protein sequence
 Red=Cloning site Green=Tags(s)

MATKARVMYDFAAEPGNELTVNEGEIITITNPVGGWLEGRNIKGERGLVPTDYVEILPSDGKDQFSC
 GNSVADQAFDLSASTAHASSAASNNHQVSGNDPWSAWSASKSGNWESEGWGAQPEGAGAQRNTNT
 PNNWDTAFGHPQAYQGPATGDDDDWDEDWDGPKSSSYFKDSEADAGGAQRGNSRASSSSMKIPLNKFPG
 FAKPGTEQYLLAKQLAKPKEKIP IIVGDYGPWWVYPTSTFDCVVADPRKGSKMYGLKSYIEYQLTPTNTN
 RSVNHRYPKHFDFWLYERLLVKFGSAIPIPSLPDKQVTGRFEEEF IKMRMERLQAWMTRMCRHPVISESEVF
 QQFLNFRDEKEWKTKRKAERDELAVMIFSTMEPEAPDLDLVEIEQKCEAVGKFTKAMDDGVKELLTVG
 QEHWKRCTGPLPKEYQKIGKALQSLATVFSSSGYQGETDLNDAITEAGKTYEEIASLVAEQPKDLHFLM
 ECNHEYKGFGLGCFPDIIGTHKGAIEKVESDKLVATSKITLQDKQNMVKRVSIMSYALQAEMNHFHSNRI
 YDYNVIRLYLEQQVQFYETIAEKLRLQALSRFPVM

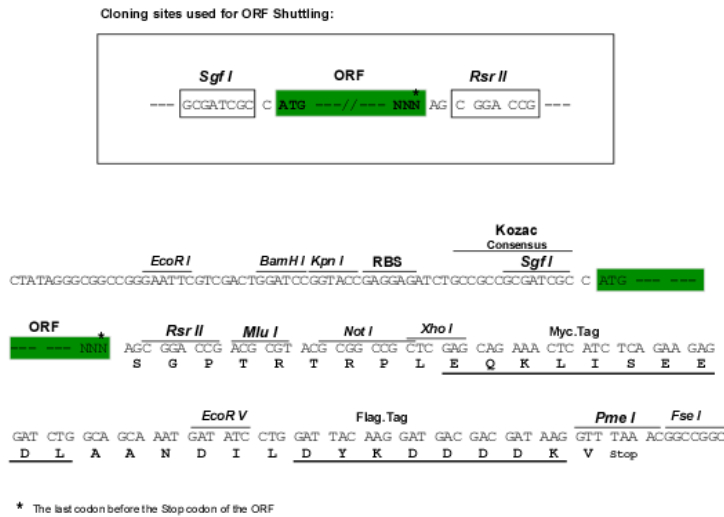
SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6190_b07.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_016224

ORF Size: 1785 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_016224.5](#)

RefSeq Size: 4291 bp

RefSeq ORF: 1788 bp

Locus ID: 51429

UniProt ID: [Q9Y5X1](#)

Cytogenetics: 6q25.3

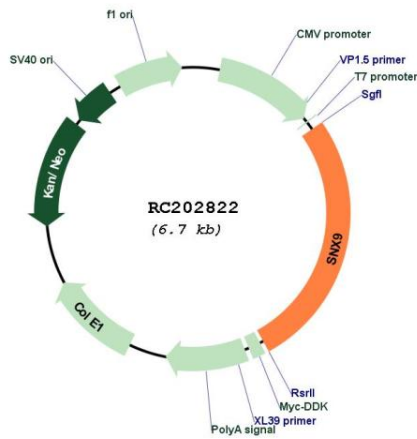
Domains: SH3, PX

Protein Families: Druggable Genome

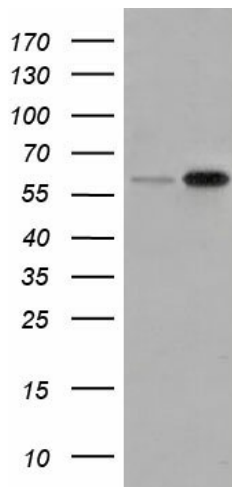
MW: 66.6 kDa

Gene Summary: This gene encodes a member of the sorting nexin family. Members of this family contain a phosphoinositide binding domain, and are involved in intracellular trafficking. The encoded protein does not contain a coiled coil region, like some family members, but does contain a SRC homology domain near its N-terminus. The encoded protein is reported to have a variety of interaction partners, including of adaptor protein 2 , dynamin, tyrosine kinase non-receptor 2, Wiskott-Aldrich syndrome-like, and ARP3 actin-related protein 3. The encoded protein is implicated in several stages of intracellular trafficking, including endocytosis, macropinocytosis, and F-actin nucleation. [provided by RefSeq, Jul 2013]

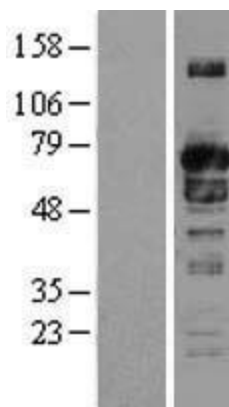
Product images:



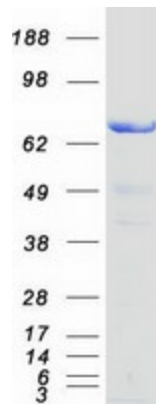
Circular map for RC202822



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SNX9 (Cat# RC202822, 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-SNX9 (Cat# [TA501250]). Positive lysates [LY402520] (100ug) and [LC402520] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402520]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202822 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNX9 protein (Cat# [TP302822]). The protein was produced from HEK293T cells transfected with SNX9 cDNA clone (Cat# RC202822) using MegaTran 2.0 (Cat# [TT210002]).