

Product datasheet for **MR220304**

Snx9 (NM_025664) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snx9 (NM_025664) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Snx9
Synonyms:	2700073N08Rik; SDP1; SH3PX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220304 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCAAGGCTCGGGTCATGTACGACTTTGCTGCTGAGCCTGGAACAATGAGCTGACCGTTACTG
 AAGGAGAAATCATCACAGTTACAAACCCGAATGTTGGTGGAGGATGGCTGGAAGGAAAGAACAACAAAGG
 AGAGCAGGGGCTTGTTCCTACTGACTACGTGGAATTTTACAAACGATGGAAAAGATCCGTTTTCTTGT
 GGGAAATCAGTAGCCGACCAAGCTTTCCTCGATTCCCTGACAGCTAGCACAGCTCAAACCAACTCATCTT
 CTGCCAACAGCAATAACCAAGTTGGTGGTGGCAATGACCCCTGGACAGCCTGGAATGCTCCCAAACCTGG
 GAACTGGGACAGCTCCGATGCCTGGGGCTCCAGGACAGACGGAAGTACGCTCAGAGGAACAGCAGCGCC
 AACAACTGGGACACGGGCTTGGCCACCACAGGCCTACCAAGGACCAGCAACTGGTGATGATGACGAAT
 GGGATGAAGACTGGGACACCCCAAGTCTCCTCACCTTACTTCAAGGATTCAGAACCAGCTGAAGCAGG
 GGGCATCCAGCGGGAAACAGTCGTGCGGGTGCCTCCTCATGAAGCTGCCCTTAACAATTTCTGGA
 TTTGCAAAACCTGGCATGGAGCAGTACTTGTGGCCAAGCAGCTAGCAAAACCCAAAGAGAAAATCGCCA
 TCATCGTTGGAGATTATGGCCCTATGTGGGTTTACCTACCTCTACGTTTACTGTGTGGTACTGATCC
 CCGGAAAGGTTCCAAAATGTACGGTCTGAAGAGCTACATTGAGTATCAGCTAACCCCACTAACACTAAC
 CGATCTGTAAACCACAGATATAAGCACTTTGATTGGTTATATGAGCGTCTCCTGGTTAAGTTTGGTCTG
 CCATTCGATCCCTTCTCTCCAGACAAGCAGGTACAGGTCGCTTTGAAGAGGAATTTATCAAAATGCG
 GATGGAGCGGCTCCAGGCCTGGATGACCAGGATGTGCCGCCACCCGGTGGTGTGAGAAAGTGAAGTTTC
 CAGCAGTCTCTGAATTTCCGAGATGAGAAGGAATGGAAGACTGGAAGAGGAAGGCTGAGAAAGACGAAC
 TGGTGGGAGTGATGATATTTCCACCATGGAACCAGAGGCTCTGACTTGGATTTGATAGAAATAGAAC
 GAAGTGTGACGCTGTGGGGAAGTTCACCAAGGCCATGGATGACGCGTGAAGGAGCTGCTGACGGTGGGG
 CAGGAGCACTGGAAGCGCTGCACAGGGCCCTTACCCAAGGAGTATCAGAAGATAGGAAGGCTCTGCAGA
 GCTTAGCGGCAGTGTTACAGTCCAGCGTTATCAAGGAGAGACCGACCTTAAAGTGAATCACAGAAGC
 TGGGAAGACGTATGAGGAGATCGCCAGCCTTGTGGCAGAGCAGCCAAAGAAGGACCTCCACTTCTGATG
 GAGTGAACCATGAGTACAAAGGCTTCTCGGCTGCTTCCCGGACATCATTGGTGGCCACAAGGGAGCAA
 TAGAAAAAGTGAAGAAAGTGATAAGCTGGTTCACACTAGTAAAATTACTCCCAAGACAAGCAGACCAT
 GGTGAAGAGAGTTGGCACCATGTCTTACGCTCTGCAAGCTGAGATGAATCACTTTACAGTAACCCGATC
 TATGATTACAACAGTGTATCCGCCTTACCTGGAGCAGCAAGTGCAGTCTATGAAACAATCGCAGAAA
 AGCTGAGGCAGGCCCTCAGCCGCTTCCCGTTATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220304 protein sequence
 Red=Cloning site Green=Tags(s)

MATKARVMYDFAAEPGNLTVTEGEIITVTPNPVGGWLEGNKNGEQGLVPTDYVEILPNDGKDPFSC
 GNSVADQAFDLSLTASTAQTNSSANSNNQVGGNDPWTAWNAPKPGNWDSSDAWGSRTDGTSAQRNSSA
 NNWDTGFGHPQAYQGPATGDDDEWDEDWDDPKSSSPYFKDSEPAEAGGIQRGNSRAGASSMKLPLNKFPG
 FAKPGMEQYLLAKQLAKPKEKIAIIVGDYGPWWVYPTSTFDCVVADPRKGSKMYGLKSYIEYQLTPTNTN
 RSVNHRYKHFDFWLYERLLVKFGSAIPIPSLPDKQVTGRFEEEFIKMRMERLQAWMTRMCRHPVSESEVF
 QQFLNFRDEKEWKTGKRKAEKDELVGVMIFSTMEPEAPDLDLIEIEQKCDVAGKFTKAMDDGVKELLTVG
 QEHWKRCTGPLPKEYQKIGKALQSLAAVFSSSGYQGETDLNDAITEAGKTYEEIASLVAEQPKDLHFLM
 ECNHEYKGFGLGCFPIIGAHKGAIEKVKESDKLVATSKITPQDKQTMVKRVGTMSYALQAEMNHFHSNRI
 YDYNVIRLYLEQQVQFYETIAEKLRQALSRFPVM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_025664

ORF Size: 1788 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_025664.6](#)

RefSeq Size: 2078 bp

RefSeq ORF: 1788 bp

Locus ID: 66616

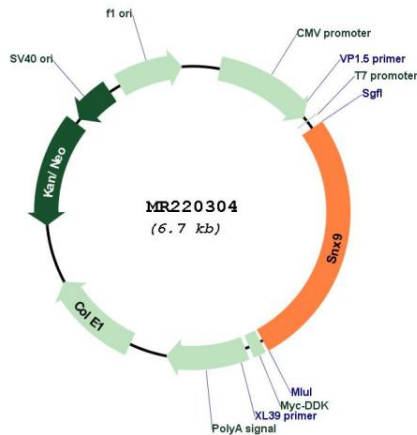
UniProt ID: [Q91VH2](#)

Cytogenetics: 17 3.51 cM

MW: 66.5 kDa

Gene Summary: Involved in endocytosis and intracellular vesicle trafficking, both during interphase and at the end of mitosis. Required for efficient progress through mitosis and cytokinesis. Required for normal formation of the cleavage furrow at the end of mitosis. Plays a role in endocytosis via clathrin-coated pits, but also clathrin-independent, actin-dependent fluid-phase endocytosis. Plays a role in macropinocytosis. Promotes internalization of TNFR. Promotes degradation of EGFR after EGF signaling. Stimulates the GTPase activity of DNM1. Promotes DNM1 oligomerization. Promotes activation of the Arp2/3 complex by WASL, and thereby plays a role in the reorganization of the F-actin cytoskeleton (PubMed:23437151). Binds to membranes enriched in phosphatidylinositol 4,5-bisphosphate and promotes membrane tubulation. Has lower affinity for membranes enriched in phosphatidylinositol 3-phosphate (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220304