

Product datasheet for **MG220304**

Snx9 (NM_025664) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snx9 (NM_025664) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Snx9
Synonyms:	2700073N08Rik; SDP1; SH3PX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220304 representing NM_025664
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCACCAAGGCTCGGTCATGTACGACTTTGCTGCTGAGCCTGGAACAATGAGCTGACCGTTACTG
 AAGGAGAAATCATCACAGTTACAAACCCGAATGTTGGTGGAGGATGGCTGGAAGGAAAGAACAACAAGG
 AGAGCAGGGCTTGTTCCTACTGACTACGTGGAATTTTACAAACGATGAAAAAGATCCGTTTTCTTGT
 GGGAAATCAGTAGCCGACCAAGCTTTCCTCGATTCCCTGACAGCTAGCACAGCTCAAACCAACTCATCTT
 CTGCCAACAGCAATAACCAAGTTGGTGGTGGCAATGACCCCTGGACAGCCTGGAATGCTCCCAAACCTGG
 GAACTGGGACAGCTCCGATGCCTGGGGCTCCAGGACAGACGGAAGTACGCTCAGAGAACAGCAGCGCC
 AACAACTGGGACACGGGCTTGGCCACCCACAGGCCTACCAAGGACCAGCAACTGGTGATGATGACGAAT
 GGGATGAAGACTGGGACACCCCAAGTCTCCTCACCTTACTTCAAGGATTCAGAACCAGCTGAAGCAGG
 GGGCATCCAGCGGGAAACAGTCGTGCGGGTGCCTCCTCATGAAGCTGCCCTTAACAAATTTCTGGA
 TTTGCAAAACCTGGCATGGAGCAGTACTTGTGGCCAAGCAGCTAGCAAAACCCAAAGAGAAAATCGCCA
 TCATCGTTGGAGATTATGGCCCTATGTGGGTTTACCTACCTCTACGTTTGACTGTGTGGTAGCTGATCC
 CCGGAAAGGTTCCAAAATGTACGGTCTGAAGAGCTACATTGAGTATCAGCTAACCCCACTAACACTAAC
 CGATCTGTAAACCACAGATATAAGCACTTTGATTGGTTATATGAGCGTCTCCTGGTTAAGTTTGGTCTG
 CCATTCGATCCCTTCTCTCCAGACAAGCAGGTACAGGTCGCTTTGAAGAGGAATTTATCAAATGCG
 GATGGAGCGGCTCCAGGCCTGGATGACCAGGATGTGCCGCCACCCGGTGGTGTGAGAAAGTGAAGTTTC
 CAGCAGTTCCTGAATTTCCGAGATGAGAAGGAATGGAAGACTGGAAGAGGAAGGCTGAGAAAGACGAAC
 TGGTGGGAGTGATGATATTTCCACCATGGAACCAGAGGCTCTGACTTGGATTTGATAGAAATAGAAC
 GAAGTGTGACGCTGTGGGAAGTTCACCAAGGCCATGGATGACGGCGTGAAGGAGCTGCTGACGGTGGGG
 CAGGAGCACTGGAAGCGCTGCACAGGGCCCTTACCCAAGGAGTATCAGAAGATAGGAAGGCTCTGCAGA
 GCTTAGCGGCAGTGTTACAGTCCAGCGTTATCAAGGAGAGACCGACCTTAACGATGCAATCACAGAAGC
 TGGGAAGACGTATGAGGAGATCGCCAGCCTTGTGGCAGAGCAGCCAAAGAAGGACCTCCACTTCTGATG
 GAGTGAACCATGAGTACAAAGGCTTTCTCGGCTGCTTCCCGGACATCATTGGTGCCACAAGGGAGCAA
 TAGAAAAAGTGAAGAAAGTGATAAGCTGGTTGCAACTAGTAAAATTACTCCCAAGACAAGCAGACCAT
 GGTGAAGAGAGTTGGCACCATGTCTTACGCTCTGCAAGCTGAGATGAATCACTTTACAGTAACCCGATC
 TATGATTACAACAGTGTATCCGCTCTACCTGGAGCAGCAAGTGCAGTCTATGAAACAATCGCAGAAA
 AGCTGAGGCAGGCCCTCAGCCGCTTCCCGTTATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG220304 representing NM_025664
 Red=Cloning site Green=Tags(s)

MATKARVMYDFAAEPGNLTVTEGEIITVTPNVGGWLEGNKNGEQGLVPTDYVEILPNDGKDPFSC
 GNSVADQAFDLSLTASTAQTNSSANSNNQVGGNDPWTAWNAPKPGNWDSSDAWGSRTDGTSAQRNSSA
 NNWDTGFGHPQAYQGPATGDDDEWDEDWDDPKSSPYFKDSEPAEAGGIQRGNSRAGASSMKLPLNKFPG
 FAKPGMEQYLLAKQLAKPKEKIAIIVGDYGPWVYPTSTFDCVVADPRKGSKMYGLKSYIEYQLTPTNTN
 RSVNHRYKHFDWLYERLLVKFSAIPIPSLPDKQVTGRFEEEFIKMRMERLQAWMTRMCRHPVSESEVF
 QQFLNFRDEKEWKTGKRKAEKDELVGVMIFFSTMEPEAPDLDLIEIEQKCDAVGKFTKAMDDGVKELLTVG
 QEHWRCTGPLPKEYQKIGKALQSLAAVFSSSGYQGETDLNDAITEAGKTYEEIASLVAEQPKKDLHFLM
 ECNHEYKGFGLGCFPDIIGAHKGAIEKVESDKLVATSKIPTQDKQTMVKRVGTMSYALQAEMNHFHSNRI
 YDYNVIRLYLEQQVQFYETIAEKLRLQALSFRPVM

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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
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]