

Product datasheet for RC202594

SNX15 (NM_013306) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SNX15
Synonyms:	HSAF001435
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202594 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCCGCCAGGCGAAGGATGACTTCTGCGGCACTACACAGTGTGGACCCAGGACTCACCCCAAGG
 GCTACACCGAGTACAAAGTAACCGCGCAGTTTCATCTCAAAGAAGGACCCAGAGGATGTCAAAGAGGTGGT
 GGTCTGGAAGCGGTACAGCGACTTCCGCAAGCTGCATGGAGACCTGGCCTACACCCACCGCAACCTCTTC
 CGCCGCTCGAGGAGTTCCTGCTTTCCCCGGGCCAGGTGTTTGGCCGGTTTGAAGCCTCAGTGATCG
 AGGAGCGGCGAAAGGGGCGAGGACCTGCTTCGCTTCACTGTGCACATACCTGCGCTCAACAACAGCCC
 CCAGCTCAAGGAGTTCTTCCGGGTGGGAGGTGACCCGACCCTTGGAGGTGTCCAGGGACCTACACATC
 CTGCCACCCCTCTGATCCCCACCCGCCCCCTGATGACCCCGGCTATCCCAACTGCTCCCTGCAGAAA
 GGAGGGGCTCGAGGAATTGGAGGTGCCAGTGGACCCCCACCATCCAGCCCTGCCAGGAGGCCCTGGA
 TCTCCTTTAACTGTGAGAGCACCGAGGAGGCATCTGGTTCCCTGCCGAGGCCCTCACCGAGGCT
 GAGCTTGCCCTCTTCGACCCCTTCTCAAGGAAGAAGGCGCAGCCCCAGCCCCACCATGTGGCTGAGC
 TGGCAACGATGGAGGTGGAGTCTGCAAGGCTGGACCAGGAACCTGGGAGCCAGGAGGGCAGGAGGGA
 AGAGGATGGGGAAGGAGGGCCACCCCTGCCTACCTAAGCCAGGCCACAGAGCTCATACCCAGGCCCTG
 CGGGATGAGAAGGCAGGCGCTTACGCTGCTGCACTCCAGGGCTATCGAGACGGCGTGACGTCTTGCTTC
 AGGGAGTCCCCAGTGACCCGTTGCCTGCCCGCCAGGAAGGTGTGAAGAAGAAGGCAGCTGAGTACCTGAA
 GCGGGCAGAGGAGATCCTGCGCCTGCACCTGTCTCAACTCCCACCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC202594 protein sequence
Red=Cloning site Green=Tags(s)

MSRQAKDDFLRHYTEVSDPRTHPKGYTEYKVTQAQFISKKDPEDVKEVVVWVKRYSDFRKLHGLDAYTHRNLF
RRLEEFPAFPRAQVFGFEASVIEERRKGAEDLLRFTVHTPALNNSPQLKEFFRGGEVTRPLEVSRDLHI
LPPPLIPTPPDDPRLSQLLAERRGLEELEVDPDPPSPQAQALDEEDFNCESTEEASGSPARGPLTEA
ELALDFPFSKEEGAAPSTHVAELATMEVESARLDQEPWPGGQLEELNCEGTPPTAYLSQATELITQAL
RDEKAGAYAAALQGYRDBGVHVLQGVPSDPLRAQEGVKKKAAEYLLKRAEELIRLHLSQLPP

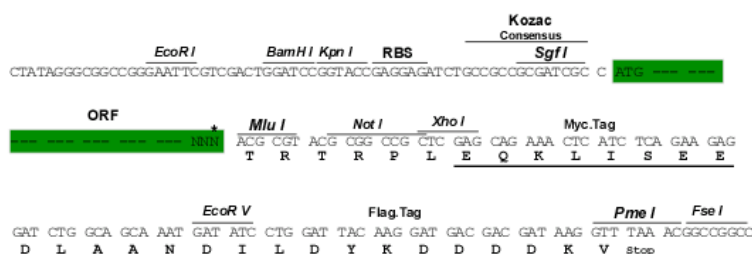
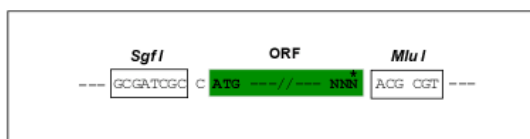
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6708_e03.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 013306

ORF Size: 1026 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_013306.5](#)

RefSeq Size: 1957 bp

RefSeq ORF: 1029 bp

Locus ID: 29907

UniProt ID: [Q9NRS6](#)

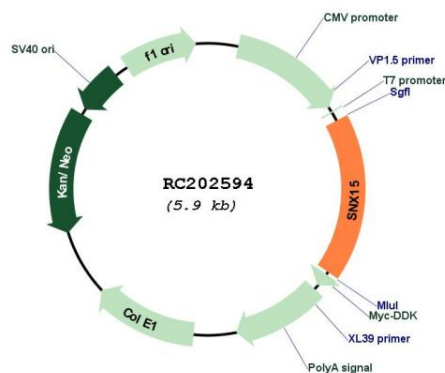
Cytogenetics: 11q13.1

Domains: PX, MIT

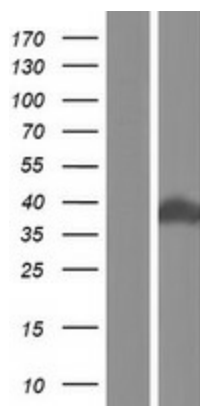
MW: 38.3 kDa

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. Overexpression of this gene results in a decrease in the processing of insulin and hepatocyte growth factor receptors to their mature subunits. This decrease is caused by the mislocalization of furin, the endoprotease responsible for cleavage of insulin and hepatocyte growth factor receptors. This protein is involved in endosomal trafficking from the plasma membrane to recycling endosomes or the trans-Golgi network. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the upstream ADP-ribosylation factor-like 2 (ARL2) gene. [provided by RefSeq, Dec 2010]

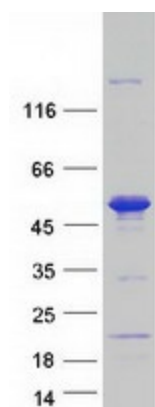
Product images:



Circular map for RC202594



Western blot validation of overexpression lysate (Cat# [LY415678]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202594 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNX15 protein (Cat# [TP302594]). The protein was produced from HEK293T cells transfected with SNX15 cDNA clone (Cat# RC202594) using MegaTran 2.0 (Cat# [TT210002]).