

Product datasheet for RC221829

SNX5 (NM_152227) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SNX5 (NM_152227) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SNX5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221829 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGGCCGCGGTTCCCGAGTTGCTGCAGCAGCAGGAGGAGGCCGAGCAAGCTGAGATCTGTATCTGTGG
ACCTGAATGTTGATCCCTCGCTTCAGATTGACATACCTGATGCGCTCAGTGAGAGAGACAAAGTCAAATT
TACAGTGACACAAAGACCACACTGCCACGTTTCAGAGCCCAGAGTTTTCTGTTACAAGGCAACATGAA
GACTTTGTGGCTACATGACACTCTTATTGAAACAACAGACTATGCTGGGCTTATTATCCACCTGCTC
CTACGAAGCCCGACTTTGATGGTCTCGAGAGAAGATGCAGAACTGGGAGAAGGTGAAGGCTATGAC
CAAAGAAGAATTTGCCAAGATGAAACAAGAACTGGAAGCTGAGTATCTCGCTGTGTTAAGAAGACTGTG
TCCTCCCATGAAGCTTTCTTCAGCGGCTTTCTTCTCACCTGTTCTCAGTAAAGATCGCAACTTTCATG
TTTTCTGGAATATGATCAGGATCTAAGTGTAGGCGGAAAAATACTAAAGAGATGTTTGGTGGCTTCTT
CAAAAGTGTGGTAAAAGTGCTGATGAAGTCCTTTTACTGGAGTTAAGGAGGTAGATGACTTCTTTGAG
CAAGAGAAGAACTTCCTTATTAATTATTACAATAGGATCAAAGATTCTTGTGAAAAGCTGACAAAATGA
CCAGATCTCATAAAAATGTTGCCGATGACTATATCCACACCGCAGCCTGTTACATAGCCTGGCTTTAGA
AGAGCCCACAGTCATCAAAAAGTACCTATTGAAGTTGCTGAGCTATTTGAAAACTAAGAAAAGTAGAG
GGTCGAGTTTCATCAGATGAAGATTTGAAGCTAACAGAGCTCCTCGATACTACATGCTCAACATTGAAG
CTGCTAAGGATCTTTATACAGACGCACCAAGCCCTCATTGACTATGAGAACTCAACAAAGCTCTGGA
TAAGGCCCGGTTAAAGAGCAAAGACGTCAAAGTTGGCTGAGGCACACCAGCAGGAGTGCTGCCAGAAATTT
GAACAACCTTCCGAATCTGCAAAAAGAAGAACTGATAAATTTCAAACGGAAGAGAGTGGCAGCATTGAGAA
AGAATCTAATTGAAATGTCTGAACTGGAATAAAACATGCCAGGAACAATGTCTCCCTTTTCAGAGCTG
TATTGACTTGTCAAGAATAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC221829 protein sequence
Red=Cloning site Green=Tags(s)

MAAVPELLQQQEEDRSKLRVSVVDLNVDPQLIDIPDALSERDKVKFTVHTKTTLPFQSPEFSVTRQHE
 DFVWLHDTLIETTDYAGLIIPPAPTKPDFDGPREKMQKLGEGEGSMTKEEFKMKQELEAEYLAVFKKTV
 SSHEVFLQRLSSHPVLSKDRNFHFVLEYPDQLSVRRKNTKEMFGGFFKSVVKSADVLFTGVKEVDDFFE
 QEKNFLINYYNRKIDSCVKADKMTRSHKNVADDYIHTAACLHSLALEEPTVIKKYLLKVAELFEKLRKVE
 GRVSSDEDLKLTELLRYMLNIEAAKDLLYRRTKALIDYENSNKALDKARLKSVDYKLAEAHQECCQKF
 EQLSESAKEELINFKRKRVAEFRKNIEMSELEIKHARNNVSLQLQSCIDLFKNN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6584_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_152227

ORF Size: 1212 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_152227.3](#)

RefSeq Size: 2308 bp

RefSeq ORF: 1215 bp

Locus ID: 27131

UniProt ID: [Q9Y5X3](#)

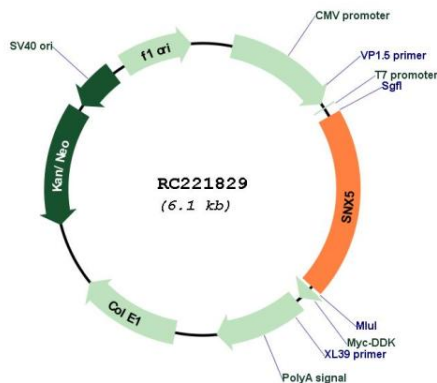
Cytogenetics: 20p11.23

Domains: PX

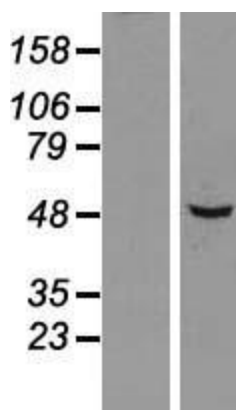
MW: 46.8 kDa

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 functions in endosomal sorting, the phosphoinositide-signaling pathway, and macropinocytosis. This gene may play a role in the tumorigenesis of papillary thyroid carcinoma. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2013]

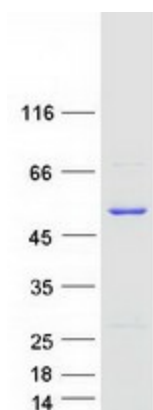
Product images:



Circular map for RC221829



Western blot validation of overexpression lysate (Cat# [LY407705]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221829 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNX5 protein (Cat# [TP321829]). The protein was produced from HEK293T cells transfected with SNX5 cDNA clone (Cat# RC221829) using MegaTran 2.0 (Cat# [TT210002]).