

Product datasheet for **RG210773**

SNX5 (NM_014426) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SNX5 (NM_014426) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SNX5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210773 representing NM_014426 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCCGCGGTTCCCGAGTTGCTGCAGCAGCAGGAGGAGGACCGCAGCAAGCTGAGATCTGTATCTGTGG
ACCTGAATGTTGATCCCTCGCTTCAGATTGACATACCTGATGCGCTCAGTGAGAGAGACAAAGTCAAATT
TACAGTGCACACAAAGACCACACTGCCCACGTTTCAGAGCCCAGAGTTTTCTGTTACAAGGCAACATGAA
GACTTTGTGTGGCTACATGACACTCTTATTGAAACAACAGACTATGCTGGGCTTATTATCCACCTGCTC
CTACGAAGCCCGACTTTGATGGTCCTCGAGAGAAGATGCAGAACTGGGAGAAGGTGAAGGGTCTATGAC
CAAAGAAGAATTTGCCAAGATGAAACAAGAACTGGAAGCTGAGTATCTCGCTGTGTTAAGAAGACTGTG
TCCTCCCATGAAGTCTTTCTTCAGCGGCTTTCTCTCACCTGTTCTCAGTAAAGATCGCAACTTTCATG
TTTTCTGGAATATGATCAGGATCTAAGTGTTAGGCGGAAAAATACTAAAGAGATGTTTGGTGGCTTCTT
CAAAAGTGTGGTGAAGAGTGCTGATGAAGTCCTTTTACTGGAGTTAAGGAGGTAGATGACTTCTTTGAG
CAAGAGAAGAAGTTCCTTATTAATTATTACAATAGGATCAAAGATTCTTGTGTGAAGCTGACAAAATGA
CCAGATCTCATAAAATGTTGCCGATGACTATATCCACACCGCAGCCTGCTTACATAGCCTGGCTTTAGA
AGAGCCCACAGTCATCAAAAGTACCTATTGAAGTTGCTGAGCTATTTGAAAACTAAGGAAAGTAGAG
GGTCGAGTTTCATCAGATGAAGATTTGAAGCTAACAGAGCTCCTCGATACTACATGCTCAACATTGAAG
CTGCTAAGGATCTCTTATACAGACGCACCAAGCCCTCATTGACTATGAGAACTCAAACAAGCTCTGGA
TAAGGCCCGGTTAAAGAGCAAAGACGTCAAGTTGGCTGAGGCACACCAGCAGGAGTGCTGCCAGAAATTT
GAACAAGTTTCCGAATCTGCAAAAGAAGAACTGATAAATTTCAAACGGAAGAGAGTGGCAGCATTAGAA
AGAATCTAATTGAAATGTCTGAAGTGAAGTAAACATGCCAGGAACAATGTCTCCCTTTTGAGAGCTG
TATTGACTTGTCAAGAATAAC

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA



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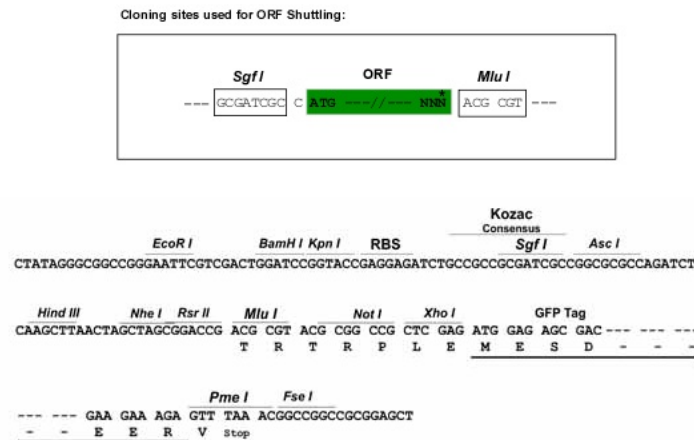
Protein Sequence: >RG210773 representing NM_014426
 Red=Cloning site Green=Tags(s)

MAAVPELLQQQEEDRSKLRSVSVDLNVDPSLQIDIPDALSERDKVKFTVHTKTTLPFQSPEFSVTRQHE
 DFWLHDTLIETTDYAGLIIPPAPTKPDFDGPREKMQLGEGEGSMTKEEFAMKQLEAEYLAVFKKTV
 SSHEVFLQRLSSHPVLSKDRNFHFVLEYPDQLSVRRKNTKEMFGGFFKSVVKSADVLFTGVKEVDFFE
 QEKNFLINYYNRIKDSCKADKMTRSHKNVADDYIHTAACLSLALAEPTVIKKYLLKVAELFEKLRKVE
 GRVSSDEDLKLTELLRYMLNIEAAKDLLYRRTKALIDYENSNAKLDKARLKSVDYKLAEAHQECCQKF
 EQLSESAKEELINFKRKRVAAFRKNLIEMSELEIKHARNNVSLQSCIDLFKNN

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014426

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014426.4](#)

RefSeq Size: 2058 bp

RefSeq ORF: 1215 bp

Locus ID: 27131

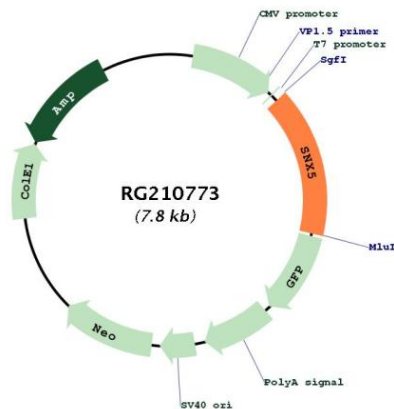
UniProt ID: [Q9Y5X3](#)

Cytogenetics: 20p11.23

Domains: PX

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 RG210773