

Product datasheet for RC206019

SNX10 (NM_013322) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SNX10 (NM_013322) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SNX10
Synonyms: OPTB8
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC206019 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTTCCGGAACAACAGAAAGAGGAATTTGTAAGTGTCTGGTTCGAGATCCTAGGATTCAGAAGGAGG
 ACTTCTGGCATTCTTACATTGACTATGAGATATGTATTCACTAATAGCATGTGTTTTACAATGAAAAC
 ATCCTGTGTACGAAGAAGATATAGAGAATTCGTGTGGCTGAGGCAGAGACTCCAAAGTATGCGTTGCTG
 GTACAAGTCCAGAACTCCATCTAAAACTGTTTTTCAACATGAACAATCGCCAGCACGTGGATCAGC
 GTCGCCAGGGTCTGGAAGATTTCTCAGAAAAGTCTACAGAATGCACTTTTGCTTTCAGATAGCAGCCT
 TCACCTCTTCTACAGAGCCATCTGAATTCAGAAGACATTGAGGCGTGTGTTTCTGGGCAGACTAAGTAC
 TCTGTGGAAGAAGCAATTCACAAGTTTGCTTAATGAATAGACGTTTCCCTGAAGAAGATGAAGAAGGAA
 AAAAAGAAAATGATATAGATTATGATTCAGAAAAGTTTCATCCTCTGGGCTTGGACACAGTAGTGATGACAG
 CAGTTCACATGGATGTAAGTAAATACAGCTCCGAGGAATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206019 protein sequence
 Red=Cloning site Green=Tags(s)

MFPEQQKEEFVSVVWRDPRIQKEDFWHSYIDYEICHTNSMCFMKTSCVRRRYREFVWLRQRLQSNALL
 VQLPELPSKNLFFNMNRRQHVDQRRQGLEDFLRKVLQNALLSDSSLHLFLQSHLNSIEDIEACVSGQTKY
 SVEEAIHKFALMNRFPPEEDEEGKKENDIDYDSESSSSGLGHSSDDSSSHGCKVNTAPQES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6287_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013322

ORF Size: 603 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_013322.3](#)

RefSeq Size: 2591 bp

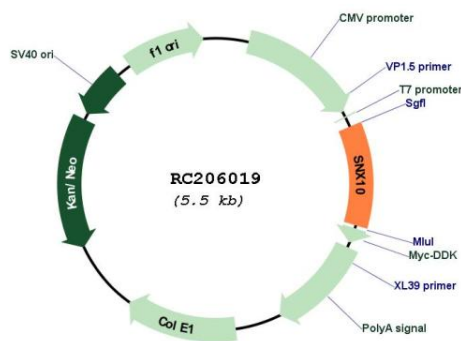
RefSeq ORF: 606 bp

Locus ID: 29887

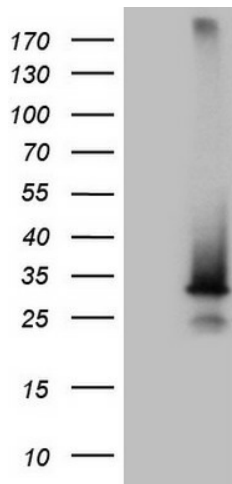
UniProt ID: [Q9Y5X0](#)
Cytogenetics: 7p15.2
Domains: PX
MW: 23.6 kDa

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 does not contain a coiled coil region, like some family members. This gene may play a role in regulating endosome homeostasis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2010]

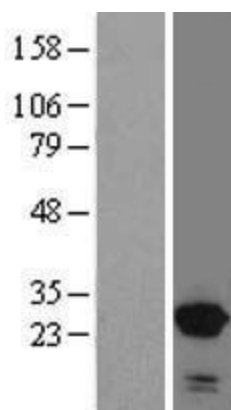
Product images:



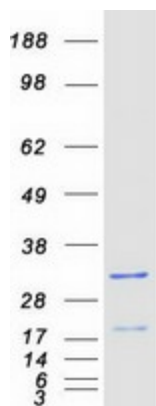
Circular map for RC206019



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SNX10 (Cat# RC206019, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SNX10 (Cat# [TA808896])(1:2000). Positive lysates [LY415625] (100ug) and [LC415625] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415625]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206019 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNX10 protein (Cat# [TP306019]). The protein was produced from HEK293T cells transfected with SNX10 cDNA clone (Cat# RC206019) using MegaTran 2.0 (Cat# [TT210002]).