

Product datasheet for **RC201979**

Syntaxin 7 (STX7) (NM_003569) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syntaxin 7 (STX7) (NM_003569) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syntaxin 7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201979 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTACACTCCAGGAGTTGGTGGTGACCCCGCCAGTTGGCCAGAGGATCTCTTCTAACATCCAGA
AGATCACACAGTGTCTGTGAAATACAAAGAACTCTGAATCAACTTGGAACACCTCAAGATTCACCTGA
ATTGAGGCAACAGTTGCAACAGAAGCAGCAGTACTAACCAGCTTGCCAAAGAAACAGATAAGTACATT
AAAGAGTTTGGATCTCTGCCACCACCCCACTGAACAGCGTCAAAGGAAAATACAGAAGGATCGCTTAG
TGGCAGAGTTACAACATCACTGACAAACTCCAGAAGTCCAGAGGCAGGCTGCTGAGCGAGAGAAAGA
GTTTGTGCTCGAGTAAGAGCCAGTTCAGAGTGTCTGGCAGTTTTCTGAGGACAGCTCAAAGAAAGG
AATCTTGTATCCTGGAAAGCCAAACTCAACTCAAGTGCAGGTGCAGGATGAAGAAATTACAGAGGATG
ACCTCCGTCTTATTCATGAGAGAGAATCTTCTATCAGGCAACTTGAAGCTGATATTATGGATATTAATGA
AATATTTAAAGATTTGGGAATGATGATTCATGAACAAGGAGATGTAATAGATAGCATAGAAGCCAATGTG
GAAAATGCAGAGGTGCACGTTCCAGCAAGCAAATCAGCAGCTGTCAAGGGCAGCAGATTATCAGCGCAAAT
CCAGAAAACCCTGTGCATCATCTTATCCTTGTCTTGGAGTTGCGATTATCAGTCTCATCATG
GGGATTGAACCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201979 protein sequence
Red=Cloning site Green=Tags(s)

MSYTPGVGGDPAQLAQRISSENIQKITQCSVEIQRTLNLGTPQDSPELRQQLQQKQQYTNQLAKETDKYI
 KEFGSLPTTPSEQRQRKIQKDRLVAEFTTSLTNFQKVQRQAAEREKEFVARVRASSRVSGSFPEDSSKER
 NLVSWESQTQPQVQVQDEEITEDDLRLIHERESSIRQLEADIMDINEIFKDLGMMIHEQGDVIDSIEANV
 ENAEVHVQQANQQLSRAADYQRKSRKTLCTIIILVIGVAIISLIWGLNH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6011_h03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003569

ORF Size: 783 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_003569.3](#)

RefSeq Size: 4270 bp

RefSeq ORF: 786 bp

Locus ID: 8417

UniProt ID: [O15400](#)

Cytogenetics: 6q23.2

Domains: t_SNARE, SynN

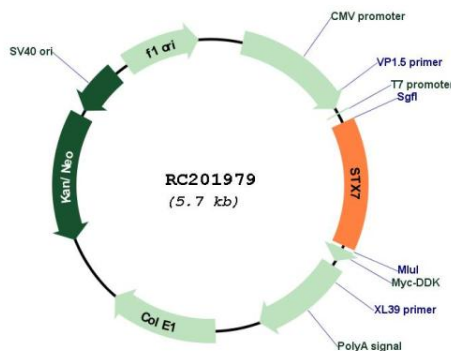
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: SNARE interactions in vesicular transport

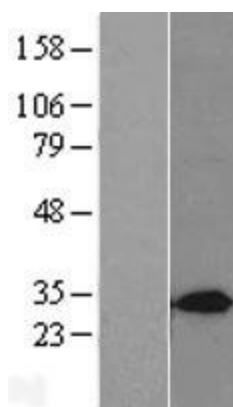
MW: 29.8 kDa

Gene Summary: The protein encoded by this gene is a syntaxin family membrane receptor involved in vesicle transport. The encoded protein binds alpha-SNAP, an important regulator of transport vesicle fusion. Along with syntaxin 13, this protein plays a role in the ordered fusion of endosomes and lysosomes with the phagosome. [provided by RefSeq, May 2016]

Product images:



Circular map for RC201979



Western blot validation of overexpression lysate (Cat# [LY418578]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201979 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).