

Product datasheet for **RC233607**

Syntaxin 16 (STX16) (NM_001204868) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syntaxin 16 (STX16) (NM_001204868) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syntaxin 16
Synonyms:	SYN16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233607 representing NM_001204868 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACTGGTGTGAGGCATCAGCTTAGATCCAGAAGCAGCGATTGGTGTGACAAAACGGCCACCTCCTA
AGTGGGTGGATGGAGTGGATGAAATTCAGTATGATGTTGGCCGGATTAAGCAGAAGATGAAAGAATTGGC
CAGCCTTCATGACAAGCATTTAAACAGACCCACCCTGGATGACAGCAGCGAAGAGGAACATGCCATTGAG
ATAACTACCAAGAGATCACTCAGCTCTCCACAGGTGCCAGCGTGCCGTGCAGGCCCTGCCGAGCCGGG
CCCGGGCTGCTCCGAGCAGGAGGGCGGCTGCTTGGAAACGTGGTGGCCTCGCTGGCGCAGGCCCTGCA
GGAACCTCCACCAGCTCCGGCAGCAGATCAGGCTACCTCAAACGCATGAAGAATCGAGAGGAAAGA
TCCAGCATTTTTTCGACACATCAGTACCACTAATGGATGATGGAGACGATAAACCTCTTTACCATCGGG
GTTTTACAGAGGACAGTTAGTTCTGGTGGAGCAGAACAACACTGATGGTGGAAAGAGCGGGAACGAGAGAT
TCGCCAGATTGTACAGTCCATTTCTGACCTGAATGAAATATTCAGGGACTTAGGGGCGATGATTGTAGAA
CAGGGTACAGTCTTGACAGAATTGACTATAACGTTGAACAGTCTGTATCAAACCTGAAGATGGTTTGA
AACAGCTTCACAAGGCAGAACAGTATCAAAGAAGAATCGGAAGATGCTTGTGATTTTAAATATTTTGT
CATCATCATTGTGCTCATTGTTGTCCTCGTTGGCGTGAAGTCTCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233607 representing NM_001204868
Red=Cloning site Green=Tags(s)

MALVSGISLDPEAAIGVTKRPPPKWVDGVDEIQYDVGR IKQKMKELASLHDKHLNRPTLDDSS EEEHAIE
 ITTQEITQLFHRCQRAVQALPSRARACSEQEGRLLGNVVASLAQALQELSTSRHAQSGYLKRMKNREER
 SQHFFDTSVPLMDDGDDNTLYHRGFTE DQLVLVEQNTLMVEEREREIRQIVQSIDLNEIFRDLGAMIVE
 QGTVLDRIDYNEQSCIKTEDGLKQLHKA EQYQKKNRMLVILILFVIIIVLIVLVGVKSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001204868

ORF Size: 816 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_001204868.2](#)

RefSeq Size: 4340 bp

RefSeq ORF: 819 bp

Locus ID: 8675

UniProt ID: [O14662](#)

Cytogenetics: 20q13.32

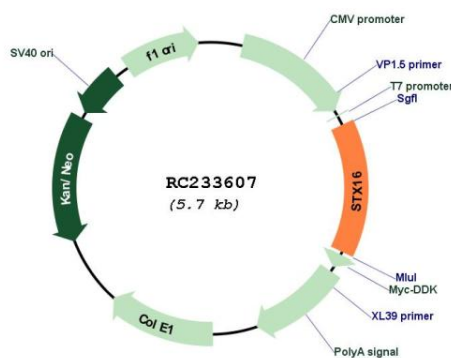
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: SNARE interactions in vesicular transport

MW: 31.5 kDa

Gene Summary: This gene encodes a protein that is a member of the syntaxin or t-SNARE (target-SNAP receptor) family. These proteins are found on cell membranes and serve as the targets for V-SNARES (vesicle-SNAP receptors) permitting specific synaptic vesicle docking and fusion. A microdeletion in the region of chromosome 20 where this gene is located has been associated with pseudohypoparathyroidism type 1b. Multiple transcript variants have been found for this gene. Read-through transcription also exists between this gene and the neighboring downstream aminopeptidase-like 1 (NPEPL1) gene. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RC233607