

## Product datasheet for **RC225432**

### Syntaxin 16 (STX16) (NM\_001134773) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Syntaxin 16 (STX16) (NM\_001134773) 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:** >RC225432 representing NM\_001134773  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCCACCAGGCGTTTAAACCGACGCTTCTTGTGTTGCGGAATAATCCATCCAAAACCGGCAGCTGT  
TAGCCGAGCAAGAGCTGGACGAGCTTGCTGATGACCGTATGGCACTGGTGTGAGGCATCAGCTTAGATCC  
AGAAGCAGCGATTGGTGTGACAAAACGGCCACCTCCTAAGTGGTGGATGGAGTGGATGAAATTCAGTAT  
GATGTTGGCCGGATTAAGCAGAAGATGAAAGAATTGGCCAGCCTTCATGACAAGCATTTAAACAGACCCA  
CCCTGGATGACAGCAGCGAAGAGGAACATGCCATTGAGATAACTACCAAGAGATCACTCAGCTCTTCCA  
CAGGTGCCAGCGTGCCGTGCAGGCCCTGCCGAGCCGGCCGGGCTGCTCCGAGCAGGAGGGGCGGCTG  
CTTGGGAACGTGGTGGCCTCGCTGGCGCAGGCCCTGCAGGAACTCTCACCAGCTTCCGGCACGCACAGT  
CAGGCTACCTCAAACGCATGAAGAATCGAGAGGAAAGATCCCAGCATTTTTTCGACACATCAGTACCACT  
AATGGATGATGGAGACGATAACACTCTTACCATCGGGGTTTTACAGAGGACCAGTTAGTTCTGGTGGAG  
CAGAACACTGATGGTGAAGAGCGGGAACGAGAGATTCGCCAGATTGTACAGTCCATTTCTGACCTGA  
ATGAAATATTCAGGGACTTAGGGCGATGATTGTAGAACAGGGTACAGTCCTTGACAGAATTGACTATAA  
CGTTGAACAGTCTGTATCAAACTGAAGATGGTTTGAACAGCTTCACAAGGCAGAACAGTATCAAAG  
AGAATCGGAAGATGCTTGTGATTTTAAATTATTTGTATCATCATTGTGCTCATTGTTGCTCCTCGTTG  
CGTGAAGTCTCGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC225432 representing NM\_001134773  
Red=Cloning site Green=Tags(s)

MATRRLTDAFLLLRNNSIQNRQLLAEQELDELADDRMALVSGISLDPEAAIGVTKRPPPKWVDGVDEIQY  
 DVGRIKQKMKELASLHDKHLNRPDLDDSSSEEHAIETTTQEIITQLFHRCQRAVQALPSRARACSEQEGRLL  
 LGNVVASLAQALQELSTFRHAQSGYLKRMKNREERSQHFFDTSVPLMDDGDDNTLYHRGFTEQLVLVE  
 QNTLMVEEREREIRQIVQISIDLNEIFRDLGAMIVEQGTVLDRIDYNVEQSCIKTEDGLKQLHKAQEQYQK  
 KNRKMLVILILFVIIIVLIVVLVGVKSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8052\\_a04.zip](https://cdn.origene.com/chromatograms/mk8052_a04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001134773

**ORF Size:** 924 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\\_001134773.3](#)

**RefSeq ORF:** 927 bp

**Locus ID:** 8675

**UniProt ID:** [O14662](#)

**Cytogenetics:** 20q13.32

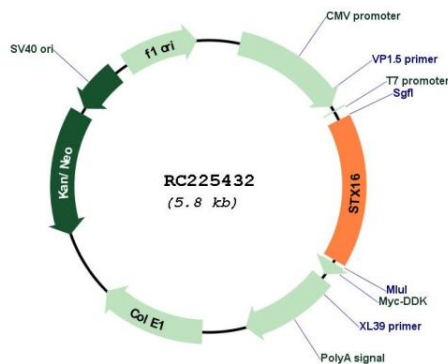
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** SNARE interactions in vesicular transport

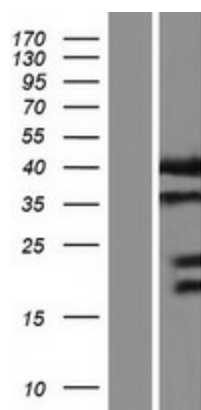
**MW:** 35.1 kDa

**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 RC225432



Western blot validation of overexpression lysate (Cat# [LY427489]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225432 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).