

Product datasheet for **RC200658**

Syntaxin 3 (STX3) (NM_004177) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Syntaxin 3 (STX3) (NM_004177) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Syntaxin 3 |
| Synonyms: | STX3A |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC200658 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGACCGTCTGGAGCAGCTGAAGGCCAAGCAGCTGACACAGGATGATGATACTGATGCGGTTGAGA
TTGCTATCGACAACACGGCTTTTATGGACGAGTTCTTTCTGAGATTGAGGAACTCGGCTTAACATTGA
CAAGATCTCAGAACATGTAGAGGAGGCTAAGAACTCTACAGTATCATTCTCTGCACCGATTCCAGAG
CCAAAAACCAAGGATGACCTAGAGCAGCTCAGACTGAGATTAAGAAAAGGGCCAACAACGTCCGGAACA
AACTGAAGAGCATGGAGAAGCATATTGAAGAAGATGAGGTCAGGTCATCGGCAGACCTTCGGATTCCGAA
ATCCCAGCACTCTGTCTTTCTCGGAAGTTTGTGGAGGTGATGACCAAATACAATGAAGCTCAAGTGGAC
TTCCGAGAACGCAGCAAAGGGCGAATCCAGCGGCAGCTCGAAATTAAGGCAAAAAGACAACCGATGAGG
AGCTGGAGGAGATGTTGGAGAGTGGCAACCCGGCCATCTTCACTTCTGGGATCATTGACTCACAGATTTT
CAAGCAAGCCCTCAGTGAGATTGAGGGACGACACAAGGACATTGTGAGGCTGGAGAGCAGCATCAAGGAG
CTTCACGACATGTTTATGGACATCGCCATGCTGGTGGAGAATCAGGGTGAGATGTTAGATAACATAGAGT
TGAATGTCATGCACACAGTGGACCACGTGGAGAAGGCACGAGATGAAACGAAAAAGCTGTGAAATACCA
GAGTCAGGCCCGGAAGAAATTGATAATTATCATTGTGCTAGTAGTGTGTGCTGGGCATTTTAGCATTG
ATTATTGGACTTCCGTTGGGCTGAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200658 protein sequence
Red=Cloning site Green=Tags(s)

MKDRLEQLKAKQLTQDDDTDAVEIAIDNTAFMDEFFSEIEETRLNIDKISEHVVEAKKLYSIILSAPIPE
 PKTKDDLEQLTTEIKKRANNVRNKLKSMEKHIEEDEVSRSSADLRIRKSQHSVLSRKFVEVMTKYNEAQVD
 FRERSKGRIQRQLEITGKKTDEELEEMLESGNPAIFTSGIIDSQISKQALSEIEGRHKDIVERLESSIKE
 LHDMFMDIAMLVENQGEMLDNIELNVMHTVDHVEKARDETKKAVKYQSQARKKLI I I I I V L V V V L L G I L A L
 I I G L S V G L N

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6409_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_004177

ORF Size: 867 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_004177.5](#)

RefSeq Size: 6498 bp

RefSeq ORF: 870 bp

Locus ID: 6809

UniProt ID: [Q13277](#)

Cytogenetics: 11q12.1

Domains: t_SNARE, SynN

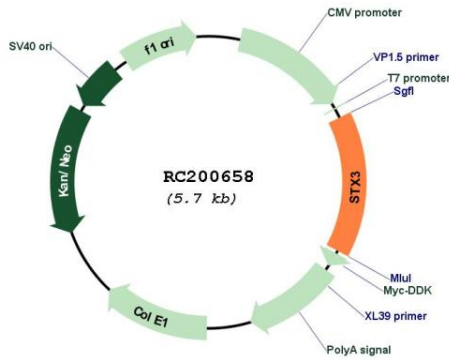
Protein Families: Druggable Genome, Stem cell - Pluripotency, Transmembrane

Protein Pathways: SNARE interactions in vesicular transport

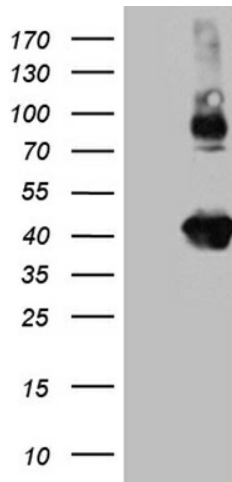
MW: 33.2 kDa

Gene Summary: The gene is a member of the syntaxin family. The encoded protein is targeted to the apical membrane of epithelial cells where it forms clusters and is important in establishing and maintaining polarity necessary for protein trafficking involving vesicle fusion and exocytosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]

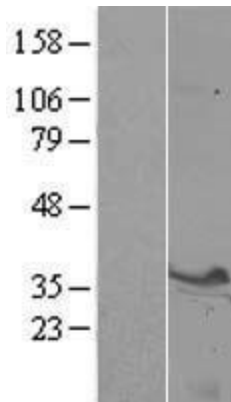
Product images:



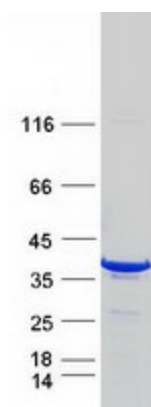
Circular map for RC200658



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY STX3 (Cat# RC200658, 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-STX3 (1:2000) (Cat# [TA811076]). Positive lysates [LY418166] (100ug) and [LC418166] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418166]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200658 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified STX3 protein (Cat# [TP300658]). The protein was produced from HEK293T cells transfected with STX3 cDNA clone (Cat# RC200658) using MegaTran 2.0 (Cat# [TT210002]).