

## Product datasheet for RC204213

### Syntaxin 5A (STX5) (NM\_003164) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syntaxin 5A (STX5) (NM_003164) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syntaxin 5A
Synonyms:	SED5; STX5A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204213 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCCCGCGGAAACGCTACGGGTCTAAGAACACGGATCAGGGTGTCTACCTGGGTCTCTCAAAGACAC  
AGGTCCTGTCCCCTGCAACTGCTGGCAGTAGCAGCAGCGACATCGCCCCCTCTGCCCCCCCAGTGACCCCT  
CGTCCCTCCCCCTCCCGACACCATGTCTGCCGGGATCGGACCCAGGAGTTTCTGTCTGCCTGCAAGTCG  
CTGCAGACCCGTCAGAATGGAATCCAGACAAATAAGCCAGCTTTGCGTGTGTCCGACAACGCAGTGAAT  
TCACCCTCATGGCCAAGCGCATTGGGAAAGACCTTAGCAACACATTTGCCAAGCTGGAGAAGCTGACAAT  
CTTGGCAAAGCGCAAGTCCCTCTTTGATGATAAAGCAGTGGAAATTGAAGAGCTAACATATATCATCAAA  
CAGGACATCAATAGCCTCAACAAACAAATTGCTCAGCTCCAGGATTTCTGAGAGCCAAGGGCAGCCAGA  
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CAATGACTTCAAATCGGTTTTAGAAGTGAGGACAGAGAACCTGAAGCAGCAGAGGAGCCGGAGAGAGCAG  
TTCTCCCGGGCACCTGTGTGAGCCCTGCCCTTGGCCCTAACCACCTGGGCGGTGGTGTGTGGTTCTGG  
GGCAGAGTCCCATGCCTCCAAGGATGTCGCCATCGACATGATGGACTCTCGACCCAGCCAGCAGCTGCA  
GCTCATTGACGAGCAGGATTCCTACATCCAGAGTCGGGCAGACACCATGCAGAACATTGAGTCGACAATT  
GTTGAGTTGGGCTCCATCTTTGAGCAGTTGGCACACATGGTTAAGGAACAGGAGGAAACCATTCAGAGGA  
TCGACGAGAACGTGCTAGGAGCCAGCTGGACGTTGAGGCCGCCATTTCAGAGATCCTCAAGTACTTCCA  
GTCTGTCACTCCAACCGGTGGCTCATGGTCAAAATCTTCTCATCTCATTGTCTTCTCATCATCTTT  
GTGGTCTTCTTGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RC204213 protein sequence  
Red=Cloning site Green=Tags(s)

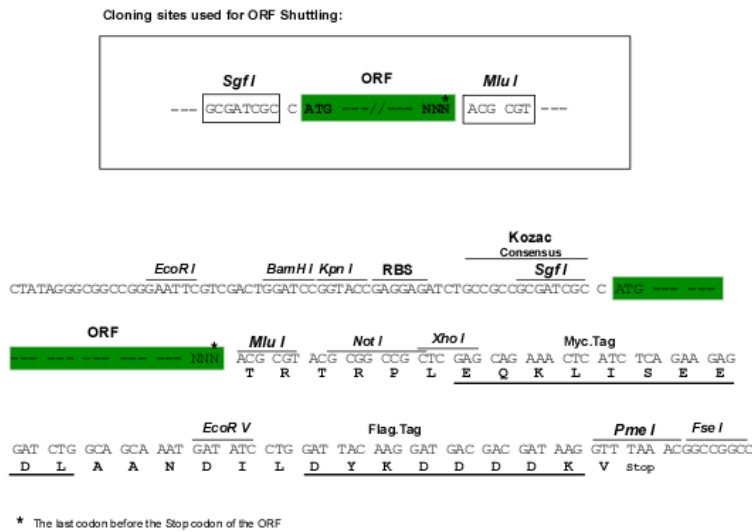
MIPRKRYGSKNTDQGVYLGLSKTQVLSPATAGSSSSDIAPLPPPVTLVPPPPDTMSCRDRTQEFLSACKS  
 LQTRQNGIQTNKPALRAVRQRSEFTLMAKRIGKDLNNTFAKLEKLTILAKRKSLEFDDKAVEIEELTYIIK  
 QDINSLNKQIAQLQDFVRAKGSQSGRHLQTHSNTIVVSLQSKLASMSNDFKSVLEVRTENLKQQRSRREQ  
 FSRAPVSALPLAPNHLGGGAVVLGAESHASKDVAIDMMSRSTSQQLQLIDEQDSYIQSRADTMQNIESTI  
 VELGSIFFQQLAHMVKEQEETIQRIDENVLGAQLDVEAAHSEILKYFQSVTSNRWLMVKIFLILIVFFIIF  
 VVFLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6060\\_a07.zip](https://cdn.origene.com/chromatograms/mk6060_a07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003164

**ORF Size:** 1065 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\\_003164.5](#)

**RefSeq Size:** 1834 bp

**RefSeq ORF:** 1068 bp

**Locus ID:** 6811

**UniProt ID:** [Q13190](#)

**Cytogenetics:** 11q12.3

**Domains:** t\_SNARE, SynN

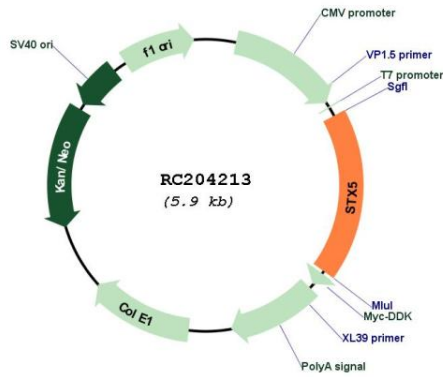
**Protein Families:** Druggable Genome, Transmembrane

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

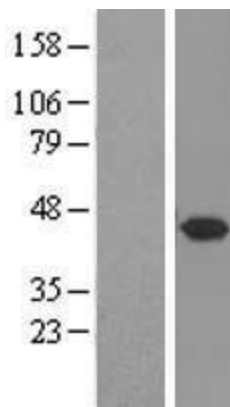
**MW:** 39.7 kDa

**Gene Summary:** This gene encodes 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. The encoded protein regulates endoplasmic reticulum to Golgi transport and plays a critical role in autophagy. Autoantibodies targeting the encoded protein may be a diagnostic marker for endometriosis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]

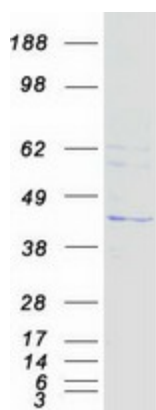
Product images:



Circular map for RC204213



Western blot validation of overexpression lysate (Cat# [LY418853]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204213 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified STX5 protein (Cat# [TP304213]). The protein was produced from HEK293T cells transfected with STX5 cDNA clone (Cat# RC204213) using MegaTran 2.0 (Cat# [TT210002]).