

Product datasheet for **SC313976**

Syntaxin binding protein 4 (STXBP4) (NM_178509) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syntaxin binding protein 4 (STXBP4) (NM_178509) Human Untagged Clone
Tag:	Tag Free
Symbol:	Syntaxin binding protein 4
Synonyms:	Synip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC313976 representing NM_178509.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAATAAAAAATACATCTACTGTAGTATCACCCAGTCTACTTAAAAAGGATCCTGCCTTTCAGATGATT
ACAATTGCCAAGGAAACAGGCCTTGGCCTGAAGGTACTAGGAGGAATTAACCGGAATGAAGGCCCATTTG
GTATATATTCAGGAAATTATTCCTGGAGGAGACTGTTATAAGGATGGTCGTTTGAAGCCAGGAGATCAA
CTTGCTCAGTCAACAAGGAATCTATGATTGGTGTATCATTTGAAGAAGCAAAAAGCATAATTACCGGA
GCCAAGTTGAGGTTAGAATCTGCTTGGGAGATAGCATTATAAGACAAAAATCCGACAACATTCAGCCA
GAAAATCTGTCATGTACATCACTTATAGAAGCTTCAGGAGAATATGGACCTCAAGCCTCAACATTAAGT
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TTATCTTCTTGAGATAAAAACTGGATACAACAAAACAGTACAGATTCCAATTACTTCAGAAAACAGT
ACTGTGGGTTTGCTAATACAGATGTTGCTTCTGCCTGGACTGAAAATTATGGGCTACAAGAAAAGATC
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CCCAACAAAGGAACAACACCAAGCCCTGAGACAGCAAGTACAAGCAGACTCAAAGGGACAGTGTCTTTT
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GAAATTTCCAATATATTAGATTCACAGCTTCTTCTTGATTCTTCAGAACGAGATGAAATGGAAGG
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CAGACTTCCCTCACACCACTGGGAAGGAATGGACGTAGCATCCCAGCAACGCTGGCGCTTGAATCTAAG
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ACAGCAGATGGAATCAAGTACTTCATCAATCATGTAACACAGACTACATCCTGGATCCATCCCGTGATG
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AGTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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Restriction Sites: Sgfl-MluI

ACCN: NM_178509

Insert Size: 1662 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_178509.5](#)

RefSeq Size: 6046 bp

RefSeq ORF: 1662 bp

Locus ID: 252983

UniProt ID: [Q6ZWI1](#)

Cytogenetics: 17q22

MW: 61.7 kDa

Gene Summary: Plays a role in the translocation of transport vesicles from the cytoplasm to the plasma membrane. Inhibits the translocation of SLC2A4 from intracellular vesicles to the plasma membrane by STX4A binding and preventing the interaction between STX4A and VAMP2. Stimulation with insulin disrupts the interaction with STX4A, leading to increased levels of SLC2A4 at the plasma membrane. May also play a role in the regulation of insulin release by pancreatic beta cells after stimulation by glucose (By similarity).[UniProtKB/Swiss-Prot Function]