

## Product datasheet for **RC218531**

### STXBP2 (NM\_006949) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STXBP2 (NM_006949) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STXBP2
Synonyms:	FHL5; Hunc18b; MUNC18-2; pp10122; UNC18-2; UNC18B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC218531 representing NM\_006949  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCCCTCGGGCTGAAGGCGGTGGTGGGGAAAAAATTCTGAGCGGAGTTATTCGGAGTGTCAAGA  
 AGGATGGGGAGTGAAGGTGCTTATCATGGATCACCCAAGCATGCGCATCTTGCTTCTCTGCTGCAAAAT  
 GTCAGATATCCTGGCTGAGGGCATCACCATTTGTTGAAGACATCAACAAACGGCGGGAACCCATTCCCACT  
 CTGGAGGCCATTTATTTGCTGAGCCCCACGGAGAAGTCGGTTCAGGCCCTGATCAAAGACTTCCAGGGGA  
 CCCCAGCTTTACCTACAAAGCGGCCATATCTTCTCACCGACACCTGCCCCGAGCCCTGTTCACTGA  
 GCTAGGCCGCTCTCGTCTGGCAAAGGTGGTGAAGACGTTGAAGGAGATTCACCTTGCTTCTCCCTAC  
 GAGGCCAGGTGTTCTCCCTCGATGCTCCACAGCACCTAACCTCTACTGCCCTTCCGGGCAGAGG  
 AGCGCACGCGGCAGCTCGAGGTGCTGGCCAGCAGATTGCCACGCTGTGCCACCCTGCAGGAGTACCC  
 GGCCATCCGCTACCGCAAGGGCCAGAGGACACAGCCAGTTGGCCACGCGCTCTGGCCAAGCTGAAC  
 GCCTTCAAGGCAGACACTCCAGTCTGGGCGAGGGCCAGAGAAAACCCGCTCCAGCTGCTGATAATGG  
 ACCGGGCAGCTGACCCCGTGTCCCACTACTGCATGAGCTCACGTTCCAGGCCATGGCGTATGATCTGCT  
 GGACATAGAGCAGGACACATACAGGTATGAGACCACCGGGCTGAGCGAGGCGCGGAGAAGGCCGCTTGT  
 CTGGACGAGGACGATGACTTGTGGGTGGAGCTTCGCCACATGCATATCGCAGATGTGTCCAAGAAGGTCA  
 CGGAGCTCCTGAGGACCTTCTGTGAGAGCAAGAGGCTGACCACGGACAAGGCGAACATCAAAGACCTATC  
 CCAGATCTGAAAAGATGCCGAGTACCAGAAGGAGCTGAATAAGTATTCTACGCACCTGCATCTAGCA  
 GATGATGTATGAAGCACTTCAAGGGCTCGGTGGAGAAGCTGTGTAGTGTGGAGCAGGACCTGGCCATGG  
 GCTCCGACGAGAGGGGAGAAGATCAAGGACTCCATGAAGCTGATCGTTCGGTGTCTGTGGACGCGGC  
 GGTGCCCGCTACGACAAGATCCGGTCTGCTCTACATCCCTTCGGAATGGTGTGAGTGAAGGAG  
 AACCTGGCCAAGCTGATCCAGCATGCCAATGTACAGGCGCACAGCAGCCTCATCCGTAACCTGGAGCAGC  
 TGGGAGGCACTGTACCAACCCGGGGCTCGGGACCTCCAGCCGGCTGGAGCCGAGAGAACGCATGGA  
 GCCACCTATCAGCTGTCCCGTGGACCCCGGTATCAAGGATGTAATGGAGGACGCCGTGGAGGACCGG  
 CTGGACAGGAACCTGTGGCCCTCGTATCCGACCCGCCCCACGGCCAGCTCCAGGCCGCTGTCACTG  
 CCCGCTTCGGTCACTGGCACAAGAACAAGGCTGGCATAGAAGCCGGCGGGCCCCGGCTCATCGTGTA  
 TGTCATGGGCGGTGTGGCCATGTCAGAGATGAGGGCCGCTACGAGGTGACCAGGGCCACCGAGGGCAAG  
 TGGGAGGTGCTCATTGGCTCCTCACACATCCTCACCCGACCCGCTTCTGGATGACCTGAAGGCAGCTGG  
 ACAAGAAGCTGGAGGACATTGCCCTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

>RC218531 representing NM\_006949  
 Red=Cloning site Green=Tags(s)

MAPSGLKAVVGEKILSGVIRSVKKGGEWKVLIMDHPSMRILSSCKMSDILAEGITIVEDINKRREPIPS  
 LEAIYLLSPTEKSVQALIKDFQGTPTFTYKAAHIFFTDTCPEPLFSELGRSRLAKVVVKLKEIHLAFLPY  
 EAQVFLSDAPHSTYNLYCPFRAERTRQLEVLAAQIATLCATLQEYPAIRYRKGPEDTAQLAHAVLAKLN  
 AFKADTPSLGEGPEKTRSQLIMDRAADPVSPLLHELTFQAMAYDLLDIEQDTRYRYETTGLSEAREKAVL  
 LDEDDLWVELRHMHIADVSKKVTPELLRTFCESKRLTTDKANIKDLSQILKKMPQYQKELNKYSTHLHLA  
 DDCMKHFKGSVEKLCVSEQDLAMGSDAEGEKIKDSMKLIVPVLLDAAVPAYDKIRVLLL YILLRNGVSEE  
 NLAKLIQHANYVAHSSLIRNLEQLGGTVNPPGGTSSRLEPRERMEPTYQLSRWTPVIKDVMEDEVEDR  
 LDRNLWPFVSDPAPTASSQAASARFGHWHKNKAGIEARAGPRLIVYVMGGVAMSEMRAAYEVTRATEGK  
 WEVLIGSSHILTPTRFLDDLKALDKKLEDIALP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_006949

**ORF Size:** 1779 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\\_006949.4](#)

**RefSeq Size:** 1910 bp

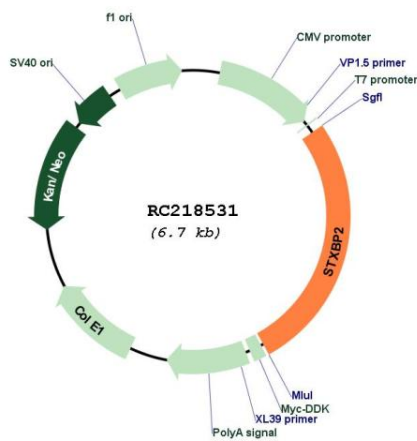
**RefSeq ORF:** 1782 bp

**Locus ID:** 6813

**UniProt ID:** [Q15833](#)

**Cytogenetics:** 19p13.2  
**Domains:** Sec1  
**Protein Families:** Stem cell - Pluripotency  
**MW:** 66.5 kDa  
**Gene Summary:** This gene encodes a member of the STXBP/unc-18/SEC1 family. The encoded protein is involved in intracellular trafficking, control of SNARE (soluble NSF attachment protein receptor) complex assembly, and the release of cytotoxic granules by natural killer cells. Mutations in this gene are associated with familial hemophagocytic lymphohistiocytosis. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jan 2013]

**Product images:**



Circular map for RC218531