

## Product datasheet for **RG225996**

### **STXBP2 (NM\_001127396) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	STXBP2 (NM_001127396) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STXBP2
Synonyms:	FHL5; Hunc18b; MUNC18-2; pp10122; UNC18-2; UNC18B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG225996 representing NM\_001127396  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGCCCTCGGGCTGAAGGCGGTGGTGGGGAAAAAATTCTGAGCGGAGTTATTCGGAGTGTCAAGA  
 AGGATGGGGAGTGAAGGTGCTTATCATGGATCACCCAAGCATGCGCATCTTGCTTCTCTGCTGCAAAAT  
 GTCAGATATCCTGGCTGAGGGCATCACCATTTGTTGAAGACATCAACAAACGGCGGGAACCCATTCCCACT  
 CTGGAGGCCATTTATTTGCTGAGCCCCACGGAGAAGGCCCTGATCAAAGACTTCCAGGGGACCCCGACTT  
 TCACCTACAAAGCGGCCATATCTTCTTACCACACCTGCCCGAGCCCTGTTCACTGAGCTAGGCCG  
 CTCTCGTCTGGCAAAGGTGGTGAAGACGTTGAAGGAGATTCACCTTGCCTTCTCCCTACGAGGCCAG  
 GTGTTCTCCCTCGATGCTCCACACGACCTACAACCTCTACTGCCCTTCCGGGACAGGAGCGCACGC  
 GGCAGCTCGAGGTGCTGGCCAGCAGATTGCCACGCTGTGCGCCACCCTGCAGGAGTACCCGGCCATCCG  
 CTACCGCAAGGGCCAGAGGACACAGCCAGTTGGCCACGCCGCTCTGGCCAAGCTGAACGCCTTCAAG  
 GCAGACACTCCAGTCTGGGCGAGGGCCAGAGAAAACCCGCTCCAGCTGCTGATAATGGACCGGGCAG  
 CTGACCCCGTGTCCCACTACTGCATGAGCTCACGTTCCAGGCCATGGCGTATGATCTGCTGGACATAGA  
 GCAGGACACATACAGGTATGAGACCACCGGGCTGAGCGAGGCGCGGGAGAAGGCCGCTTGTCTGGACGAG  
 GACGATGACTTGTGGGTGGAGCTTCGCCACATGCATATCGCAGATGTGTCCAAGAAGGTCACGGAGCTCC  
 TGAGGACCTTCTGTGAGAGCAAGAGGCTGACCACGGACAAGGCGAACATCAAAGACCTATCCAGATCCT  
 GAAAAAGATGCCGAGTACCAGAAGGAGCTGAATAAGTATTCTACGCACCTGCATCTAGCAGATGATTGT  
 ATGAAGCACTTCAAGGGCTCGGTGGAGAAGCTGTGTAGTGTGAGCAGGACCTGGCCATGGGCTCCGACG  
 CAGAGGGGAGAAGATCAAGGACTCCATGAAGCTGATCGTTCCGGTGTCTGCTGGACGCGCGGTGCCGCG  
 CTACGACAAGATCCGGGCTCTGCTCTACATCCTCCTTCGGAATGGTGTGAGTGAGGAGAACCCTGGCC  
 AAGCTGATCCAGCATGCCAATGTACAGGCGCACAGCAGCCTCATCCGTAACCTGGAGCAGCTGGGAGGCA  
 CTGTACCAACCCCGGGGCTCGGGACCTCCAGCCGGCTGGAGCCGAGAGAACGCATGGAGCCACCTA  
 TCAGCTGTCCCGTGGACCCCGGTATCAAGGATGTAATGGAGGACGCCGTGGAGGACCGGCTGGACAGG  
 AACCTGTGGCCCTTCGTATCCGACCCCGCCCCACGGCCAGCTCCAGGCCGCTGTCACTGCCCCGTTCCG  
 GTCACTGGCACAAGAACAAGGCTGGCATAGAAGCCGGGCGGGCCCCGGCTCATCGTGTATGTCATGGG  
 CGGTGTGGCCATGTCAGAGATGAGGGCCGCTACGAGGTGACCAGGGCCACCGAGGGCAAGTGGGAGGTG  
 CTATTGGCTCCTCACACATCCTCACCCGACCCGCTTCTGGATGACCTGAAGGCACTGGACAAGAAGC  
 TGAGGACATTGCCCTGCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG225996 representing NM\_001127396  
 Red=Cloning site Green=Tags(s)

MAPSGLKAVVGEKILSGVIRSVKKGGEWKVLIMDHPSMRILSSCKMSDILAEGITIVEDINKRREPIPS  
 LEAIYLLSPTEKALIKDFQGTPTFTYKAAHIFFTDTCPEPLFSELGRSRLAKVVKTLKEIHLAFLPYEAQ  
 VFSLDAPHSTYNLYCPFRAEERTQLEVLAAQIATLCATLQEYPAIRYRKGPEDTAQLAHAVLAKLNAFK  
 ADTPSLGEGPEKTRSQLIMDRAADPVSPLLHELTFQAMAYDLLDIEQDTYRYETTGLSEAREKAVLLDE  
 DDDLWVELRHMHIADVSKKVTPELLRTFCESKRLTTDKANIKDLSQILKKMPQYQKELNKYSTHLHLADDC  
 MKHFKGSVEKLCVSVEQDLAMGSDAEGEKIKDSMKLIVPVLDAAVPAYDKIRVLLLYILLRNGVSEENLA  
 KLIQHANVQAHSSLIRNLEQLGGTVTNPGSGTSSRLEPRERMEPTYQLSRWTPVIKDVMEDAVEDRLDR  
 NLWPFVSDPAPTASSQAAYSARFGHWHKKNKAGIEARAGPRLIVYVMGGVAMSEMRAAYEVTRATEGKWEV  
 LIGSSHILTPTRFLDDLKALDKKLEDIALP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001127396

**ORF Size:** 1770 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\\_001127396.3](#)

**RefSeq Size:** 1901 bp

**RefSeq ORF:** 1773 bp

**Locus ID:** 6813

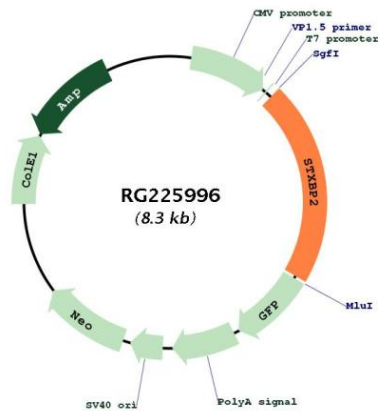
**UniProt ID:** [Q15833](#)

**Cytogenetics:** 19p13.2

**Protein Families:** Stem cell - Pluripotency

**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 RG225996