

Product datasheet for **RG234547**

STXBP2 (NM_001272034) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STXBP2 (NM_001272034) 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:

>RG234547 representing NM_001272034
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCGCCCTCGGGCTGAAGGCGGTGGTGGGGAAAAAATTCTGAGCGGAGTTATTCGGAGTGTCAAGA
 AGGATGGGGAGTGAAGGTGCTTATCATGGATCACCAAGCATGCGCATCTTGCTTCTCTGCTGCAAAAT
 GTCAGATATCCTGGCTGAGGGCATCACCATTTGTTGAAGACATCAACAAACGGCGGGAACCCATTCCCACT
 CTGGAGGCCATTTATTTGCTGAGCCCCACGGAGAAGGCTCAGGCCAGAGAGTGATCCACCTTCCCCAGT
 CGGTTCAGGCCCTGATCAAAGACTTCCAGGGGACCCGACTTTACCTACAAAGCGGCCCATATCTTCTT
 CACCGACACCTGCCCGAGCCCTGTTCACTGAGCTAGGCCGCTCTCGTCTGGCAAAGGTGGTGAAGACG
 TTGAAGGAGATTACCTTGCCTTCTCCCTACGAGGCCAGGTGTTCTCCCTCGATGCTCCCCACAGCA
 CCTACAACCTCTACTGCCCTTCCGGGCAGAGGAGCGCACGCGGAGCTCGAGGTGCTGGCCAGCAGAT
 TGCCACGCTGTGCGCCACCCTGCAGGAGTACCCGGCCATCCGCTACCGCAAGGGCCAGAGGACACAGCC
 CAGTTGGCCACGCCGTCTGGCCAAGCTGAACGCCTTCAAGGCAGACACTCCCAGTCTGGGCGAGGGCC
 CAGAGAAAACCCGCTCCAGCTGCTGATAATGGACCGGGCAGTGACCCCGTGTCCCACTACTGCATGA
 GCTCACGTTCCAGGCCATGGCGTATGATCTGCTGGACATAGAGCAGGACACATACAGGTATGAGACCACC
 GGGCTGAGCGAGGCGCGGGAAGGCCGCTTGTCTGGACGAGGACGATGACTTGTGGGTGGAGCTTCGCC
 ACATGCATATCGCAGATGTGTCCAAGAAGGTACCGAGCTCTGAGGACCTTCTGTGAGAGCAAGAGGCT
 GACCACGGACAAGGCGAATCAAGACCTATCCAGATCCTGAAAAAGATGCCGAGTACCAGAAGGAG
 CTGAATAAGTATTCTACGCACCTGCATCTAGCAGATGATTGTATGAAGCACTTCAAGGGCTCGGTGGAGA
 AGCTGTGTAGTGTGGAGCAGGACCTGGCCATGGGCTCCGACGAGAGGGGGAAGATCAAGGACTCCAT
 GAAGCTGATCGTTCCGGTGTCTGCTGGACGCGCGGTGCCCGCTACGACAAGATCCGGGTCTGCTGCTC
 TACATCTCTCTCGAATGGTGTGAGTGAGGAGAACCTGGCCAAGCTGATCCAGCATGCCAATGTACAGG
 CGCACAGCAGCTCATCCGTAACCTGGAGCAGCTGGGAGGCACTGTACCAACCCCGGGGCTCGGGGAC
 CTCCAGCCGGCTGGAGCCGAGAGAACGCATGGAGCCACCTATCAGTGTCCCGTGGACCCCGGTATC
 AAGGATGTAAATGGAGGACGCCGTGGAGGACCGGTGGACAGGAACCTGTGGCCCTTCGTATCCGACCCCG
 CCCCCACGGCCAGCTCCAGGCCGCTGTAGTCCCGCTTCGGTCACTGGCACAAGAACAAGGCTGGCAT
 AGAAGCCCGGGGGGGCCCCGGCTCATCGTGTATGTATGGGCGGTGTGGCCATGTAGAGATGAGGGCC
 GCCTACGAGGTGACCAGGGCCACCGAGGCAAGTGGGAGGTGCTATTGGCTCTCACACATCTCACCC
 CGACCCGCTTCTGGATGACCTGAAGGCACTGGACAAGAAGCTGGAGGACATTGCCCTGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234547 representing NM_001272034
 Red=Cloning site Green=Tags(s)

MAPSGLKAVVGEKILSGVIRSVKKGGEWKVLIMDHPSMRILSSCKMSDILAEGITIVEDINKRREPIPS
 LEAIYLLSPTEKAQAQRVIHLPQSVQALIKDFQGTPTFTYKAAHIFFTDTCPEPLFSELGRSRLAKVVKT
 LKEIHLAFLPYEAQVFLDAPHSTYNLYCPFRAEERTRQLEVLAAQIATLCATLQEYPAIRYKGPEDTA
 QLAHAVLAKLNAFKADTPSLGEGPEKTRSQLIMDRAADPVSPLLHELTFQAMAYDLLEDQDTYRYETT
 GLSEAREKAVLLDEDDDLWVELRHHMIADVSKKVTLLRTFCESKRLTTDKANIKDLSQILKKMPQYQKE
 LNKYSTHLHLADDCMKHFKGSVEKLCSVEQDLAMGSDAEGEIKDSMKLIVPVLLDAVPAYDKIRVLL
 YILLRNGVSEENLAKLIQHNVQAHSSLIRNLEQLGGTVTNPGSGTSSRLEPRERMEPTYQLSRWTPVI
 KDVMEDAVEDRLDRNLWPFVSDPAPTASSQAASARFGHWHKNKAGIEARAGPRLIVYVMGGVAMSEMRA
 AYEVRATEGKWEVLIGSSHILTPTRFLDDLKALDKKLEDIALP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001272034

ORF Size: 1812 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_001272034.2](#)

RefSeq Size: 1941 bp

RefSeq ORF: 1815 bp

Locus ID: 6813

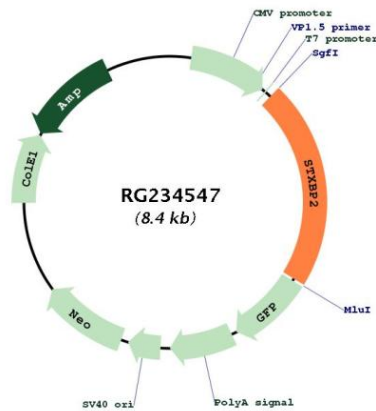
UniProt ID: [Q15833](#)

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 RG234547