

## Product datasheet for **RG203999**

### SH3BP5 (NM\_004844) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SH3BP5 (NM_004844) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SH3BP5
Synonyms:	SAB; SH3BP-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG203999 representing NM\_004844  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACGCGGCACTGAAGCGGAGCCGCTCGGAGGAGCCGAAATCCTGCCGCTGCCGGGACGAGG  
 AGGAGGAGGAGGAAGAGGGGATGGAGCAGGGGCTGGAGGAGGAAGAAGAGGTGGATCCCGGATCCAGGG  
 AGAACTGGAGAAGTTAAATCAGTCCACGGATGATCAACAGACGGGAGACTGAACTTGAGGATGCTCGT  
 CAGAAGTTCGGCTCTGTTCTGGTTGAAGCAACGGTGAAGTGGATGAACTGGTGAAGAAAATTGGCAAAG  
 CTGTGGAAGACTCCAAGCCCTACTGGGAGGCACGGAGGGTGGCGAGGCAGGCTCAGCTGGAAGCTCAGAA  
 AGCCACGCAGGACTTCCAGAGGGCCACAGAGGTGCTCCGTGCCGCAAGGAGACCATCTCCCTGGCCGAG  
 CAGCGGCTGCTGGAGGATGACAAGCGGCAGTTCGACTCCGCTGGCAGGAGATGCTGAATCACGCCACTC  
 AGAGGGTCATGGAGGCGGAGCAGACCAAGACCAGGAGCGAGCTGGTGCATAAGGAGACGGCAGCCAGGTA  
 CAATGCCGCCATGGGCCGATGCGACAGCTGGAGAAGAACTCAAGAGAGCCATCAACAAGTCCAAGCCT  
 TATTTTGAAGTCAAGGCAAAGTACTATGTGCAGCTCGAGCAACTGAAAAAGACTGTGGATGACCTGCAGG  
 CCAAAGTACCCTGGCAAAGGCGAGTACAAGATGGCCCTGAAGAACCCTGGAGATGATCTCAGATGAGAT  
 CCACGAGCGGGCGGCTCCAGTGCCATGGGGCCTCGGGATGCGGTGTTGGTGTGAGGGCAGCAGCACA  
 TCTGTGGAGGATCTGCCAGGGAGCAAACCTGAGCCTGATGCCATTTCTGTGGCCTCGGAGGCCTTTGAAG  
 ATGACAGCTGTAGCAACTTTGTGTCTGAAGATGACTCGGAAACCCAGTCCGTGTCCAGCTTTAGTTCAGG  
 ACCAACAAGCCGCTGTGAGATGCCTGACCAGTTCCTGCGGTTGTGAGGCCTGGCAGCCTGGATCTGCC  
 AGCCCTGTGTCCTGTGAGATTTGGGATGATGTTCCAGTGTGGGCCCTCGAAGTGAATGCAGCGGGG  
 CCTCCTCCCTGAATGTGAAGTAGAAGCAGGAGACAGGGCAGAAGGGGCAGAGAATAAAACAAGTGACAA  
 AGCCAACAACAACCGGGGCTCAGCAGTAGCAGTGGCAGTGGTGGCAGCAGTAAGAGCCAAGCAGCACC  
 TCCCCTGAGGGCCAGGCCTTGGAGAACCGATGAAGCAGCTCTCCCTACAGTGCTCAAAGGGAAGAGATG  
 GAATTATTGCTGACATAAAAATGGTGCAGATTGGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG203999 representing NM\_004844  
 Red=Cloning site Green=Tags(s)

MDAALKRSRSEEPAEILPPARDEEEEEEGMEQGLEEEEEVDPRIQGELEKLNQSTDDINRRETELEDAR  
 QKFRSVLVEATVKLDELVKKIGKAVEDSKPYWEARRVARQAQLEAQKATQDFQRATEVLRRAKETISLAE  
 QRILLEDDKRQFDSAWQEMLNHATQRMVAEQTKRSELVHKETAARYNAAMGRMRQLEKLLKRAINKSKP  
 YFELKAKYVVQLEQLKKTVDLQAKLTLAKGEYKMLKNLEMSDEIHERRRSSAMGPRGCGVGAEGSST  
 SVEDLPGSKPEPDAISVASEAFEDDSCSNFVSEDDSETQSVSSFSGPTSPSEMPDQFPVVRPGSLDLP  
 SPVSLSEFGMMFPVLGPRSECSGASSPECEVERGDRAEGAENKTSKANNRGLSSSSGSGGSSKSQSST  
 SPEGQALENRMKQLSLQCSKGRDGIADIKMVQIG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_004844

**ORF Size:** 1365 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\\_004844.5](#)

**RefSeq Size:** 2810 bp

**RefSeq ORF:** 1368 bp

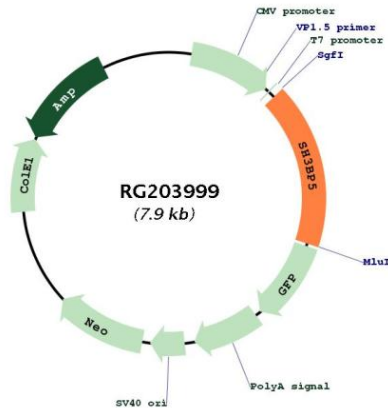
**Locus ID:** 9467

**UniProt ID:** [O60239](#)

**Cytogenetics:** 3p25.1

**Gene Summary:**

Functions as guanine nucleotide exchange factor (GEF) with specificity for RAB11A and RAB25 (PubMed:26506309, PubMed:30217979). Inhibits the auto- and transphosphorylation activity of BTK. Plays a negative regulatory role in BTK-related cytoplasmic signaling in B-cells. May be involved in BCR-induced apoptotic cell death.[UniProtKB/Swiss-Prot Function]

**Product images:**

Circular map for RG203999