

Product datasheet for **RC203999**

SH3BP5 (NM_004844) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH3BP5 (NM_004844) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SH3BP5
Synonyms:	SAB; SH3BP-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC203999 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACGCGGCACTGAAGCGGAGCCGCTCGGAGGAGCCAGCCGAAATCCTGCCGCTGCCGGGACGAGG
 AGGAGGAGGAGGAAGAGGGGATGGAGCAGGGGCTGGAGGAGGAAGAAGAGGTGGATCCCCGGATCCAGGG
 AGAACTGGAGAAGTTAAATCAGTCCACGGATGATATCAACAGACGGGAGACTGAACTTGAGGATGCTCGT
 CAGAAGTTCGGCTCTGTTCTGGTTGAAGCAACGGTGAAGTGGATGAACTGGTGAAGAAAATGGCAAAG
 CTGTGGAAGACTCCAAGCCCTACTGGGAGGCACGGAGGGTGGCGAGGCAGGCTCAGCTGGAAGCTCAGAA
 AGCCACGCAGGACTTCCAGAGGGCCACAGAGGTGCTCCGTGCCGCAAGGAGACCATCTCCCTGGCCGAG
 CAGCGGCTGCTGGAGGATGACAAGCGGCAGTTCGACTCCGCTGGCAGGAGATGCTGAATCACGCCACTC
 AGAGGGTCATGGAGGCGGAGCAGACCAAGACCAGGAGCGAGCTGGTGCAT AAGGAGACGGCAGCCAGGTA
 CAATGCCGCCATGGGCCGATGCGACAGCTGGAGAAGAACTCAAGAGAGCCATCAACAAGTCCAAGCCT
 TATTTTGAAGTCAAGGCAAAGTACTATGTGCAGCTCGAGCAACTGAAAAAGACTGTGGATGACCTGCAGG
 CCAAAGTACCCTGGCAAAGGCGAGTACAAGATGGCCCTGAAGAAGCTGGAGATGATCTCAGATGAGAT
 CCACGAGCGGGCGGCTCCAGTGCCATGGGGCCTCGGGATGCGGTGTTGGTGTGAGGGCAGCAGCACA
 TCTGTGGAGGATCTGCCAGGAGCAAACCTGAGCCTGATGCCATTTCTGTGGCCTCGGAGGCCTTTGAAG
 ATGACAGCTGTAGCAACTTTGTGTCTGAAGATGACTCGGAAACCCAGTCCGTGTCCAGCTTTAGTTCAGG
 ACCAACAGCCGCTGTGAGATGCCTGACCAGTTCCTGCGGTTGTGAGGCCTGGCAGCCTGGATCTGCC
 AGCCCTGTGTCCTGTGAGATTTGGGATGATGTTCCAGTGTGGGCCCTCGAAGTGAATGCAGCGGGG
 CCTCCTCCCTGAATGTGAAGTAGAAGCAGGAGGACAGGGCAGAAGGGGCAGAGAATAAAACAAGTGACAA
 AGCCAACAACAACCGGGCCTCAGCAGTAGCAGTGGCAGTGGTGGCAGCAGTAAGAGCCAAAGCAGCACC
 TCCCCTGAGGGCCAGGCCTTGGAGAACCGATGAAGCAGCTCTCCCTACAGTGCTCAAAGGGAAGAGATG
 GAATTATTGCTGACATAAAAATGGTGCAGATTGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203999 protein sequence
 Red=Cloning site Green=Tags(s)

MDAALKRSRSEEPAEILPPARDEEEEEEGMEQGLEEEEEVDPRIQGELEKLNQSTDDINRRETELEDAR
 QKFRSVLVEATVKLDELVKKIGKAVEDSKPYWEARRVARQAQLEAQKATQDFQRATEVLRRAKETISLAE
 QRILLEDDKRQFDSAWQEMLNHATQRMVAEQTKRSELVHKETAARYNAAMGRMRQLEKLLKRAINKSKP
 YFELKAKYVQLEQLKKTVDLQAKLTLAKGEYKMLKNLEMISDEIHERRRSSAMGPRGCGVGAEGSST
 SVEDLPGSKPEPDAISVASEAFEDDSCSNFVSEDDSETQSVSSFSSGPTSPSEMPDQFPVVRPGSLDLP
 SPVSLSEFGMMFPVLGPRSECSGASSPECEVERGDRAEGAENKTSKANNRGLSSSSGGGSSKSQSST
 SPEGQALENRMKQLSLQCSKGRDGIADIKMVQIG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6058_c01.zip

Restriction Sites:

Sgfl-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: 3322 bp

RefSeq ORF: 1368 bp

Locus ID: 9467

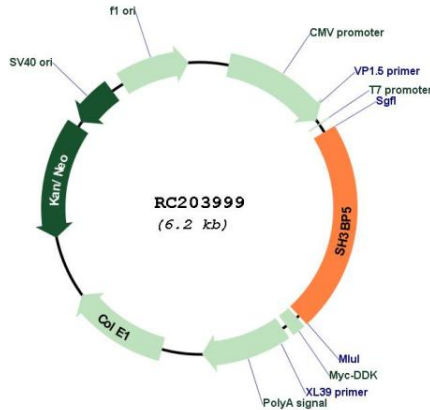
UniProt ID: [O60239](#)

Cytogenetics: 3p25.1

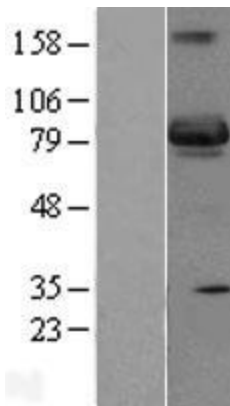
MW: 50.4 kDa

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]

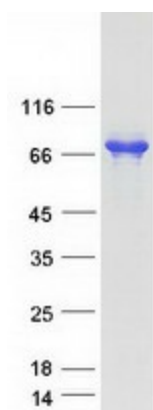
Product images:



Circular map for RC203999



Western blot validation of overexpression lysate (Cat# [LY417710]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203999 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SH3BP5 protein (Cat# [TP303999]). The protein was produced from HEK293T cells transfected with SH3BP5 cDNA clone (Cat# RC203999) using MegaTran 2.0 (Cat# [TT210002]).