

Product datasheet for **MC200161**

Sh3bp1 (BC004598) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh3bp1 (BC004598) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sh3bp1
Synonyms:	3BP-1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC004598
 GCCTGTCTGCAGGGCCAAAGCGGGGCTGACATGGACAAGCGGGTGAAGAAGCTTCTCTCATGGCTCTTT
 CTACCACGATGGCAGAGAGCTTCAAGGAACTGGATCCTGATTCCAGCATGGGGAAGGCCTTGGAGATGAC
 CTGCGCCATCCAGAACCAGCTGGCCCGAATCCTAGCCGAGTTTGAGATGACCCTGGAGAGGGATGTCCTG
 CAGCCGCTCAGCAGGCTGAGCGAGGAGGAGCTGCCTGCCATCCTGAAGCACAAGAAAAGCCTTCAAGAAGC
 TGGTGTCTGACTGGAACACCCCTAAAAGCAGGCTCAGCCAGGCCAAGAAGCTCAGGAAGCAACCAAGG
 CCTGGGTGGTGCCTCAGGCAGTCACACCCACACCACCTGCAACAAGGTAGAGATGCTGAAGGAGGAA
 GAGGAGGAGCTCAAGAAGAAGGTGAACAGTGAAGGACGAGTACCTGGCCGATCTCTACCACTTCTCCA
 CCAAGGAAGATTCTTATGCCAACTACTTTATTCATCTCTTGGAGATTGAGGCTGACTACCACCGCAAGTC
 ACTGACCTCACTCGACACGGCCCTAGCTGAGCTGAGGGACAACCAACCAAGCAGACCACTCCCCCTTG
 ACGACGGTGCCTTCTCCAGGGTATATGGGGTATCTTTGAGAACCACCTACAAGACCTAGGCCGTG
 ACATTGCCCTGCCATCGAGGCTGCGTCTGTTGCTGCTGTGAGGGCATGCAGGAGGAGGGCCTCTT
 CCGTCTGGCTGCTGGGCCTCTGTGCTGAAGCGCCTTAAGCAGACCATGGCCTCAGATCCCACAGCCTA
 GAGGAATTCTGCTCAGACCCCATGCTGTAGCAGGTGCCCTCAAGTCCTATCTCCGGGAGCTGCCGAGC
 CCCTGATGACCTCTGACCTCTACGATGACTGGATGAGAGCAGCCAGCCTGAAGGAGCCAGGAGCCCGCT
 GGAAGCCCTCCATGATGTTTGCAGCCGTCTACCCCAAGAGAACTCAACAACCTCAGGTACTGTGAAAG
 TTCTGGCTCTGCTGGCAGAGGAGCAGGATGTAACAAGATGACACCCAGCAACATCGCCATTGTCTAG
 GACCAACCTGTGTGGCCTCCCGAGAAAGAAGGGGACCAGGCCAACTGGACGCTGCCTCTGTGCTCCTC
 CATTAGGTGGTGGGTGTTGTCGAGGCGCTGATACAGAACGCAGACACCTCTTCCCTGGAGATACAAC
 TTCAATGTATCAGGCATCTTCCAGGCCTGGCCCCCAGGAGAAGGTGAGTACCAACAGGTCTCAGAGG
 AGTTGCCACCTGTTACTGTGCTGCCCCAGCCACGACCCAGCTCCCACCTGGTCCAGCCTCAATGGC
 TGTCAGAGAAAAGGACAGAGGCTGACTTGCCCAACCAACTTCTCCAAGGTGAGCAGGAACCCACCGAA
 ACAGCTGCTTCGGCGGAGGACATGACCCGTAAGACCAAGCGCCAGCCCCAGCCCGGCCTACCATGCCAC
 CTCCCAGCCCTCCAGCACCCGCTCATCCCTCCAGTCCATCCCTGCCCTGGCTCTGTGAGCCCTGG
 TACTCCCCAAGCTCTGCCTCGCCGTCTGGTGGGACCAGCCTCCGGGCCCTACCATGCCTCCCCGCTA
 CCCCCTGTTCTCCACAGCCTGCCCGGCTCAGAGCCGGCGTTTACCAGCCTCCCCTGTCTCAATA
 TGCCTGCTCAGGTGGACCAGGGAGTAGCTACAGAGGACAGAGAAGGCCCTGAGGCTGTGGGTGGGCATCC
 CCCTCCACAGCTCTGCCACCCAGCCCCGGCCAGGGGCTCATTTAGAGACAGAGTAAGCAGGCCCT
 CCTACCTGGCAGGTCTCATTGTCCCTTCTCTCCCTGCCATCCTCCCTCCCTGTCTCCAGGATGG
 CCCTTGTCCAGTGCCTGGGTGCCTGCTGGGCCGGCCCTATGGCCAGGAGGCTCAGGCCAGCCCTCTCA
 TTTCTAACCTTTTCTCTCCACTTTGAGCTTGGGGTTCCACCTGACTCCCCTCTCCGGCAGGGTCT
 CAAGGGAGCTACCAGAAGGAAGAAGCAGACTTGCTGTTCTTAGAGGACTTTATTTTTTTTCTCTTGCCA
 ATGATTTTTTGAAGGCTCGTAAATAAATTATTTTGAACAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: BC004598

Insert Size: 1803 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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:	BC004598 , AAH04598
RefSeq Size:	2224 bp
RefSeq ORF:	1803 bp
Locus ID:	20401
Cytogenetics:	15 E1
Gene Summary:	<p>GTPase activating protein (GAP) which specifically converts GTP-bound Rho-type GTPases including RAC1 and CDC42 in their inactive GDP-bound form (PubMed:7621827). By specifically inactivating RAC1 at the leading edge of migrating cells, it regulates the spatiotemporal organization of cell protrusions which is important for proper cell migration. Also negatively regulates CDC42 in the process of actin remodeling and the formation of epithelial cell junctions. Through its GAP activity toward RAC1 and/or CDC42 plays a specific role in phagocytosis of large particles. Specifically recruited by a PI3 kinase/PI3K-dependent mechanism to sites of large particles engagement, inactivates RAC1 and/or CDC42 allowing the reorganization of the underlying actin cytoskeleton required for engulfment. It also plays a role in angiogenesis and the process of repulsive guidance as part of a semaphorin-plexin signaling pathway. Following the binding of PLXND1 to extracellular SEMA3E it dissociates from PLXND1 and inactivates RAC1, inducing the intracellular reorganization of the actin cytoskeleton and the collapse of cells (By similarity).[UniProtKB/Swiss-Prot Function]</p>