

Product datasheet for **MC228501**

Sh2b2 (NM_001302938) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh2b2 (NM_001302938) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sh2b2
Synonyms:	Aps
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228501 representing NM_001302938
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAATGGTGCCACCCAGCTCGGCCGCCGCCGCCAGTCCCGACTGGCGGCAATTCTGCGAGC
 TGCACGCGCAGGTGGCTGCTGTGGACTTCGCACACAAGTTCTGCCGCTTCCTTCGGGACAACCCGACCTA
 CGACACGCTGACGCTGGGACCTCATTCTCCGCCACTTTCAGCCAATTCTTGCTGTCTTCAGTGAG
 GAGGTGCGCCGCGTGTGGGGTCAAGCAGCCGACACTATGGAACCCGAGCCTGCGGTGACCTCGGTGACAT
 CTGCGCTCAAGACTGCAACCTATGGCCACTCCCGAGCTCCGAGGATGTGTCTGCCACGCGGCTACCAA
 GGCGCGTGTCCGAAAGGATTCTCGTGCCTAACATGAGCCTGTGTGGTGGATGGAGTGCAGGACCTG
 TGGCACCGGCGCTCGTCCCGAGGCCGATGGTGGGGCCACCCCAAGGCCGCGGAGCCTGCGTCGGAGC
 CTCGTGACAAATGGACGCGACGCTGCGCTAGCACGAACCTGGCAGCCAAAGTGGAGTTAGTGGACAT
 CCAGCGTGAGGGCGCCCTGCGCTTCATGGTGGCAGACGCGCGCTCAGGGCCTGGAGGCACTGCGCAG
 TGGCAGAAAGTGTGCGCTGCTCCTGCGGAGGGCTGTGGCTGGGGAACGTTTCCGCTGGAGTTCTTCTGTC
 CACCAAGGCTTCCAGACCAAGGTGAGCATCCCTGTGCGCCATCATTGAGGTCCGAACCACTATGCC
 CCTGGAATGCCTGAAAAGGACAACACATTTGTGCTCAAGGTGGAGAACGGAGCAGAATACATCCTGGAA
 ACGATAGACTCACTGCAGAAGCACTCGTGGGTGGCTGACATCCAGGGCTGTGTGGATCCTGGGGACAGTG
 AGGAAGACACAGGACTGTCTGTGCACGGGGAGGCTGCCTGGCCAGCCGCGTGGCTCCTGCAGCTGTGA
 GCTCCTGACAGATGCAGACATGCCCCGGCCCCCGAGACGACGACGCGGTGGGTGCTGTGGTCACAGCT
 CCACATGGCCGAGCTCGTGACACCGTGGGAGAGTCCCTGGCCACGTTCCCTGGAGACTTTCCTGCAAA
 CCCTGGAGTCTTCAGGTGGTGTGAGTGAACAATAACCCAGGGGACGAAGGAGCTGAGCTGGACACCGA
 TGCTGAGGCTGAGCTGGAACCTTCCGACTACCCCTGGTTCCATGGGACATTGTCCCGGGTGAAGGCGGCC
 CAGCTTGTGCTGGCCGCTGGCCCTCGGAGCCATGGCCTCTTTGTGATCCGCCAAAGTGAAGTACAGCCTG
 GGGAGTGTGTGCTGACCTTCACTTCCAGGGCAAGGCCAAGCACCTCCGCTTTCTCTGAACGGTCACGG
 CCAGTGTGATGTCCAGCACCTGTGGTCCAGTCCGTGTTGATATGCTCCGTCACTTCCACACCCACCCC
 ATCCCCCTGGAGTCAGGAGGATCGGCTGATATCACCTAAGAAGCTATGTGCGTGGCCAGGGCCCGCTC
 CTGATCCAGGACGAGCCCAACACTGCGGCCCGAGTTCCAGCCTGCTGGACGGAGCCGGCTGGCCAGCA
 CTACTTCTCCAGCCTGGCCACGGCCACTGCCCCCGCTTACCCTCAATGGCGCTGGAGCTTCGTCT
 TCATCCGGCTCATCGTCTCTGCCACATCCCTGCCCCACGCCAGCCGAGGGGCGCTCAGTGCACACA
 GCCGACGCAACAGCACAGAGCACCTGCTGGATGCTGCATCTGGAGCCACTGAGGAGCCACAGAGGCCAC
 GCTGGGCCGTGCTGCTGTGGAGAATCAGTACTCCTTTAC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001302938

Insert Size: 1866 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001302938.1, NP_001289867.1</u>
RefSeq Size:	2900 bp
RefSeq ORF:	1866 bp
Locus ID:	23921
UniProt ID:	<u>Q9JID9</u>
Cytogenetics:	5 G2
Gene Summary:	Adapter protein for several members of the tyrosine kinase receptor family. Involved in multiple signaling pathways. May be involved in coupling from immunoreceptor to Ras signaling. Acts as a negative regulator of cytokine signaling in collaboration with CBL. Binds to EPOR and suppresses EPO-induced STAT5 activation, possibly through a masking effect on STAT5 docking sites in EPOR. Suppresses PDGF-induced mitogenesis. May induce cytoskeletal reorganization via interaction with VAV3 (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) uses an alternate splice site in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (1).