

## Product datasheet for **MC219815**

### Sh2b2 (NM\_018825) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sh2b2 (NM_018825) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sh2b2
Synonyms:	Aps
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219815 representing NM\_018825  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAATGGTGCCACCCCCAGCTCGGCCGCCGCCGCCGCCAGTCCCCGACTGGCGGCAATTCTGCGAGC  
 TGCACGCGCAGGTGGCTGCTGTGGACTTCGCACACAAGTTCTGCCGCTTCCTTCGGGACAACCCGACCTA  
 CGACACGCTGACGCTGGGACCTCATTCTCCCGCACTTTGCAGCCAATTCTTGCTGTCTTCAGTGAG  
 GAGGTGCGCCGCTGCTGGGGTCAAGCAGCCGACACTATGGAACCCGAGCCTGCGGTGACCTCGGTGACAT  
 CTGCGCTCAAGACTGCAACCTATGGCCACTCCCGCAGCTCCGAGGATGTGTCTGCCACGCGGCTACCAA  
 GGCGCTGTCCGAAAGGGATTCTCGTGCCTAACATGAGCCTGTGTGGTGGATGGAGTGCAGCAGCTG  
 TGGCACCAGGCGCTCGTCCCAGAGCCCGATGGTGGGGCCACCCCAAGGCCGCGGAGCCTGCGTCCGAGC  
 CTCGTGACAAATGGACGCGACGCTGCGCTAGCAGCAACCTGGCAGCCAAAGTGGAGTTAGTGGACAT  
 CCAGCGTGAAGGGCCCTGCGCTTCATGGTGGCAGACGACGCGGCTCAGGGCCTGGAGGACTGCGCAG  
 TGGCAGAAGTGTGCTGCTCCTGCGGAGGGCTGTGGCTGGGGAACGTTTCCGCCTGGAGTTCTTGTGTC  
 CACCAAGGCTTCCAGACCCAAGGTCAGCATCCCCCTGTGCGCCATCATTGAGGTCCGAACCACTATGCC  
 CCTGGAATGCCTGAAAAGGACAACACATTTGTGCTCAAGGTGGAGAACGGAGCAGAATACATCCTGGAA  
 ACGATAGACTCACTGCAGAAGCACTCGTGGGTGGCTGACATCCAGGGCTGTGTGGATCCTGGGGACAGTG  
 AGGAAGACACAGGACTGTCTTGTGCACGGGGAGGCTGCCTGGCCAGCCGCTGGCTCCTGCAGCTGTGA  
 GCTCCTGACAGATGCAGACATGCCCCGGCCCCCGAGACGACGACAGCGGTGGTGTGTGGTACAGCT  
 CCACATGGCCGAGCTCGTGACACCGTGGGAGAGTCCCTGGCCACGTTCCCTGGAGACTTCCCTGCAAA  
 CCCTGGAGTCTTCAGTGGTGTGAGTGAACAATAACCCAGGGGACGAAGGAGCTGAGCTGACACCCGA  
 TGCTGAGGCTGAGCTGGAACCTTCCGACTACCCCTGGTTCCATGGGACATTGTCCCGGGTGAAGGCGGCC  
 CAGCTTGTGCTGGCCGTTGGCCCTCGGAGCCATGGCCTCTTTGTGATCCGCCAAAGTGAAGTGGCCTG  
 GGGAGTGTGTGCTGACCTTCAACTTCCAGGGCAAGGCCAAGCACCTCCGCTTTCTGAAACGGTACCGG  
 CCAGTGTGATGTCCAGCACCTGTGGTCCAGTCCGTGTTGATGCTCCGTCACCTCCACACCCACCCC  
 ATCCCCCTGGAGTCAGGAGGATCGGCTGATATCACCTAAGAAGCTATGTGCGTGGCCAGGGCCCGCCTC  
 CTGATCCAGGACCAGGCCAACACTGCGGCCCGAGTCCAGCCTGCTGGACGGAGCCGGCTGGCCAGCA  
 CTACTTCTCCAGCCTGGCCACGGCCACTGCCCCCGCTTACCCTCCAATGGCGTGGAGCTTCGTCT  
 TCATCCGGCTCATCGTCTCTGCCACATCCCTGCCCCACGCCAGCCGAGGGGCGGCTCAGTGGCACA  
 GCCGCAGCAACAGCACAGAGCACCTGCTGGATGCTGCATCTGGAGCCACTGAGGAGCCACAGAGGCCAC  
 GCTGGGCCGCTCGTGTGTTGGAGAATCAGTACTCCTTTACTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_018825

**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).

**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\\_018825.4](#), [NP\\_061295.2](#)

**RefSeq Size:** 2904 bp

**RefSeq ORF:** 1866 bp

**Locus ID:** 23921

**UniProt ID:** [Q9JID9](#)

**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 (1) represents the longest transcript and encodes the longer isoform (1). Variants 1 and 2 encode the same isoform (1).