

Product datasheet for **MC227608**

Sh2b2 (NM_001302939) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Sh2b2 (NM_001302939) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Sh2b2
 Synonyms: Aps
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >MC227608 representing NM_001302939
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAATGGTGCCACCCAGCTCGGCCCGCCCGCCCGCCAGTCCCGACTGGCGGCAATTCTGCGAGC
 TGCACGCGCAGGTGGCTGCTGTGGACTTCGCACACAAGTTCTGCCGCTTCCTTCGGGACAACCCGACCTA
 CGACACGCTGACGCTGGGACCTCATTCTCCGCCACTTTGCAGCCAACCTCTTGCTGTCTTCAGTGAG
 GAGGTGCCCGCGTGTGGGGTACGAGCCGACACTATGGAACCCGAGCCTGCGGTGACCTCGGTGACAT
 CTGCGCTCAAGACTGCAACCTATGGCCACTCCCGCAGCTCCGAGGATGTGTCTGCCACGCGGCTACCAA
 GGCGCGTGTCCGAAAGGGATTCTCGCTGCGTAACATGAGCCTGTGTGGTGGATGGAGTGCGCGACCTG
 TGGCACCAGCGCTCGTCCCAGAGCCCGATGGTGGGGCCACCCCAAGGCCGCGGAGCCTGCGTCCGAGC
 CTCGTGACAAATGGACGCGACGCTGCGGCTAGCACGAACCTGGCAGCCAAAGTGGAGTTAGTGGACAT
 CCAGCGTGAGGGCGCCCTGCGCTTCATGGTGGCAGACGACGCGGCTCAGGGCTGGAGGCACTGCGCAG
 TGGCAGAAGTGTGCGCTGCTCCTGCGGAGGGCTGTGGCTGGGGAACGTTCCGCTGGAGTTCTTCGTGC
 CACCCAAAGGCTCCAGACCCAAGGTGAGCATCCCCTGTGGCCATCATTGAGGTCGAACCACTATGCC
 CCTGGAAATGCCTGAAAAGGACAACACATTTGTGCTCAAGTGGAGAACGAGCAGAATACATCCTGGAA
 ACGATAGACTCACTGCAGAAGCACTCGTGGGTGGCTGACATCCAGGGCTGTGTGGATCCTGGGGACAGTG
 AGGAAGACACAGGACTGTCTTGTGCACGGGAGGCTGCCTGGCCAGCCGCGTGGCCTCCTGCAGCTGTGA
 GCTCCTGACAGATGCAGACATGCCCCGGCCCCGAGACGACGACAGCGGTGGGTGCTGTGGTCACAGCT
 CCACATGGCCGAGCTCGTGACACCGTGGGAGAGTCCCTGGCCACGTTCCCTGGAGACTTTCCTGCAA
 CCCTGGAGTCTTCAGGTGGTGTGAGTGAACAATAACCCAGGTACCACTGGGGTCCCCACCCCTTCTA
 CAGGGACCATGTGGAGCCTCAGAAGTGGTACATTTAGCCAGTTGTGTCTACAGTGGTTTTGGCTTTC
 TAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001302939
Insert Size:	1263 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:	<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:	<u>NM_001302939.1</u> , <u>NP_001289868.1</u>
RefSeq Size:	1894 bp
RefSeq ORF:	1263 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 (3) lacks several exons and its 3' terminal exon extends past a splice site that is used in variant 1. This results in a novel 3' coding region and 3' UTR, compared to variant 1. It encodes isoform 2 which is shorter and has a distinct C-terminus, compared to isoform 1.