

## Product datasheet for **MG209499**

### Sh2b2 (NM\_018825) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sh2b2 (NM_018825) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sh2b2
Synonyms:	Aps
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209499 representing NM\_018825  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAATGGTGCCACCCCCAGCTCGGCCGCCGCCCGCCAGTCCCGACTGGCGGCAATTCTGCGAGC  
 TGCACGCGCAGGTGGCTGCTGTGGACTTCGCACACAAGTTCTGCCGCTTCCTTCGGGACAACCCGACCTA  
 CGACACGCTGACGCTGGGACCTCATTCTCCCGCACTTTGCAGCCAACCTCTTGCTGTCTTCAGTGAG  
 GAGGTGCGCCGCGTGTGGGGTCAAGCAGCCGACACTATGGAACCCGAGCCTGCGGTGACCTCGGTGACAT  
 CTGCGCTCAAGACTGCAACCTATGGCCACTCCCGCAGCTCCGAGGATGTGTCTGCCACGCGGCTACCAA  
 GGCGCGTGTCCGAAAGGATTCTCGTGCCTAACATGAGCCTGTGTGGTGGATGGAGTGCAGCAGCTG  
 TGGCACCGCGCTCGTCCCAGAGCCGATGGTGGGGCCACCCCAAGGCCGCGAGCCTGCGTCCGAGC  
 CTCGTGACAAATGGACGCGACGCTGCGGTAGCACGAACCTGGCAGCCAAAGTGGAGTGTAGTGGACAT  
 CCAGCGTGAAGGGCCCTGCGCTTCATGGTGGCAGACGACGCGGCTCAGGGCCTGGAGGACTGCGCAG  
 TGGCAGAAGTGTGCGCTGCTCCTGCGGAGGGCTGTGGCTGGGGAACGTTTCCGCCTGGAGTCTCTGTCG  
 CACCAAGGCTTCCAGACCCAAGGTCAGCATCCCCCTGTCGGCCATCATTGAGGTCCGAACCACTATGCC  
 CCTGGAATGCCTGAAAAGGACAACACATTTGTGCTCAAGGTGGAGAACGGAGCAGAATACATCCTGGAA  
 ACGATAGACTCACTGCAGAAGCACTCGTGGGTGGCTGACATCCAGGGCTGTGTGGATCCTGGGGACAGTG  
 AGGAAGACACAGGACTGTCTGTGCACGGGGAGGCTGCCTGGCCAGCCGCGTGGCTCCTGCAGCTGTGA  
 GCTCCTGACAGATGCAGACATGCCCCGGCCCCCGAGACGACGACAGCGGTGGTGTGTGGTACAGCT  
 CCACATGGCCGAGCTCGTGACACCGTGGGAGAGTCCCTGGCCACGTTCCCTGGAGACTTCTGCAAA  
 CCCTGGAGTCTTCAGGTGGTGTGAGTGAACAATAACCCAGGGGACGAAGGAGCTGAGCTGGACACCGA  
 TGCTGAGGCTGAGCTGGAACCTTCCGACTACCCCTGGTTCATGGGACATTGTCCCGGGTGAAGCGGCC  
 CAGCTTGTGCTGGCCGGTGGCCCTCGGAGCCATGGCCTCTTTGTGATCCGCCAAAGTGAAGTGGAGTGGCCTG  
 GGGAGTGTGTGCTGACCTTCAACTTCCAGGGCAAGGCCAAGCACCTCCGCCTTCTCTGAACGGTACCGG  
 CCAGTGTGATGTCCAGCACCTGTGGTCCAGTCCGTGTTGATATGCTCCGTCACTTCCACACCCACCCC  
 ATCCCCCTGGAGTCAGGAGGATCGGCTGATATCACCTAAGAAGCTATGTGCGTGGCCAGGGCCCGCCTC  
 CTGATCCAGGACCAGGCCAACACTGCGGCCCGAGTCCAGCCTGCTGGACGGAGCCGGTGGCCAGCA  
 CTACTTCTCCAGCTGGCCACGGCCACTGCCCCCGCTTACCCTCAATGGCGTGGAGCTTCTGCT  
 TCATCCGGCTCATCGTCTCTGCCACATCCCTGCCCCACGCCAGCCGAGGGGCCGCTCAGTGGCACA  
 GCCGCAGCAACAGCACAGAGCACCTGCTGGATGCTGCATCTGGAGCCACTGAGGAGCCACAGAGGCCAC  
 GCTGGGCCGTGCTCGTGTGGAGAATCAGTACTCCTTTTAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209499 representing NM\_018825  
 Red=Cloning site Green=Tags(s)

MNGATPSSAAAPAPVPDWRQFCELHAQVAAVDFAHKFCRFLRDNPTDTPDAGTSFSRHF AANFLAVFSE  
 EVRRVLGSAADTMEPEPAVTSVTSALKATYGHRSRSEDVSAHAATKARVRKGFSLRNMMLCVVDGVRDL  
 WHRRSSPEPDGGATPKAAEPASEPRDKWTRRLRLARTLAAKVELVDIQREGALRFMVADDAASGPGGTAQ  
 WQKCRLLLRRAVAGERFRLEFFVPPKASRPKVSIPLSAIIIEVRTTMPLEMPKDNFTVLKVENGAEYILE  
 TIDSLQKHSWADIQGCVDPGDSEEDTGLSCARGGCLASRVASCCELLTDADMPPPETTTAVGAVVTA  
 PHGRARDTVGESLAHVPLETFLQTLESSGGVSENNNPGDEGAELDTDAEAELELSDYPWFHGTLSRVKAA  
 QLVLAGGPRSHGLFVIRQSETRPGECVLTFFNFQKAKHLRLSLNGHQCHVQHLWFQSVFDMRLRHFHTHP  
 IPLESGGSADITLRSYVRAQGPPDPGPAPNTAAPVPACWTEPAGQHYFSSLATATCPPASPNSGAGASS  
 SSGSSSATSLPPRAEGPLSAHSRSNSTEHLDAASGATEEPTAATLGRARAVENQYSFY

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_018825

**ORF Size:** 1863 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\\_018825.4](#), [NP\\_061295.2](#)

**RefSeq Size:** 2848 bp

**RefSeq ORF:** 1866 bp

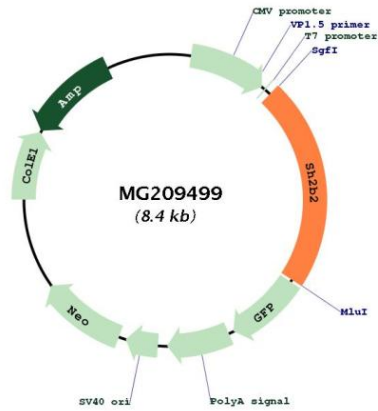
**Locus ID:** 23921

**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]

**Product images:**



Circular map for MG209499