

Product datasheet for **MR209499**

Sh2b2 (NM_018825) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR209499 representing NM_018825
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATGGTGCCACCCCCAGCTCGGCCGCCGCCCGCCAGTCCCGACTGGCGGCAATTCTGCGAGC
 TGCACGCGCAGGTGGCTGCTGTGGACTTCGCACACAAGTTCTGCCGCTTCCTTCGGGACAACCCGACCTA
 CGACACGCTGACGCTGGGACCTCATTCTCCCGCACTTTGCAGCCAACCTCTTGCTGTCTTCAGTGAG
 GAGGTGCGCCGCGTGTGGGGTCAAGCAGCCGACACTATGGAACCCGAGCCTGCGGTGACCTCGGTGACAT
 CTGCGCTCAAGACTGCAACCTATGGCCACTCCCGCAGCTCCGAGGATGTGTCTGCCACGCGGCTACCAA
 GGCGCGTGTCCGAAAGGATTCTCGTGCCTAACATGAGCCTGTGTGGTGGATGGAGTGCAGCAGCTG
 TGGCACCGCGCTCGTCCCAGAGCCGATGGTGGGGCCACCCCAAGGCCGCGAGCCTGCGTCCGAGC
 CTCGTGACAAATGGACGCGACGCTGCGGCTAGCACGAACCTGGCAGCCAAAGTGGAGTGTAGTGGACAT
 CCAGCGTGAAGGGCCCTGCGCTTCATGGTGGCAGACGACGCGGCTCAGGGCCTGGAGGACTGCGCAG
 TGGCAGAAGTGTGCGCTGCTCCTGCGGAGGGCTGTGGCTGGGGAACGTTTCCGCCTGGAGTCTCTGTCG
 CACCAAGGCTTCCAGACCCAAGGTCAGCATCCCCCTGTGCGCCATCATTGAGGTCCGAACCACTATGCC
 CCTGGAATGCCTGAAAAGGACAACACATTTGTGCTCAAGGTGGAGAACGGAGCAGAATACATCCTGGAA
 ACGATAGACTCACTGCAGAAGCACTCGTGGGTGGCTGACATCCAGGGCTGTGTGGATCCTGGGGACAGTG
 AGGAAGACACAGGACTGTCTTGTGCACGGGGAGGCTGCCTGGCCAGCCGCGTGGCTCCTGCAGCTGTGA
 GCTCCTGACAGATGCAGACATGCCCCGGCCCCCGAGACGACGACAGCGGTGGTGTGTGGTACAGCT
 CCACATGGCCGAGCTCGTGACACCGTGGGAGAGTCCCTGGCCACGTTCCCTGGAGACTTCTCTGCAAA
 CCCTGGAGTCTTCAGGTGGTGTGAGTGAACAATAACCCAGGGGACGAAGGAGCTGAGTGGACACCGA
 TGCTGAGGCTGAGCTGGAACCTTCCGACTACCCCTGGTTCATGGGACATTGTCCCGGGTGAAGCGGCC
 CAGCTTGTGCTGGCCGGTGGCCCTCGGAGCCATGGCCTCTTTGTGATCCGCCAAAGTGAAGTGGAGTGG
 GGGAGTGTGTGCTGACCTTCAACTTCCAGGGCAAGGCCAAGCACCTCCGCCTTCTCTGAACGGTACCGG
 CCAGTGTGATGTCCAGCACCTGTGGTCCAGTCCGTGTTGATATGCTCCGTCACTTCCACACCCACCCC
 ATCCCCCTGGAGTCAGGAGGATCGGCTGATATCACCTAAGAAGCTATGTGCGTGGCCAGGGCCCGCCTC
 CTGATCCAGGACCAGCGCCCAACTGCGGCCCGAGTCCAGCCTGCTGGACGGAGCCGGCTGGCCAGCA
 CTACTTCTCCAGCTGGCCACGGCCACTGCCCCCGCTTACCCTCCAATGGCGTGGAGCTTCTGCT
 TCATCCGGCTCATCGTCTCTGCCACATCCCTGCCCCACGCCAGCCGAGGGGCGGCTCAGTGGCACA
 GCCGCAGCAACAGCACAGAGCACCTGCTGGATGCTGCATCTGGAGCCACTGAGGAGCCACAGAGGCCAC
 GCTGGGCCGTGCTCGTGTGGAGAATCAGTACTCCTTTTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209499 representing NM_018825
 Red=Cloning site Green=Tags(s)

MNGATPSSAAAPAPVPDWRQFCELHAQVAAVDFAHKFCRFLRDNPYDTPDAGTSFSRHF AANFLAVFSE
 EVRRVLGSAADTMEPEPAVTSVTSALKTATYGHSRSEDVSAHAATKARVRKGFSLRNMSLCVVDGVRDL
 WHRRSSPEPDGGATPKAAEPASEPRDKWTRRLRLARTLAAKVELVDIQREGALRFMVADDAASGPGGTAQ
 WQKCRLLLRRAVAGERFRLEFFVPPKASRPKVSIPLSAII EVRTT MPEKDNFV LKVENGAEYILE
 TIDSLQKHSWADIQGCVDPGDSEEDTGLSCARGGCLASRVASCSCELLTDADMPPPETTTAVGAVVTA
 PHGRARDTVGESLAHVPLETFLQTLLESSGGVSENNNPGDEGAELDTDAEAELELSDYPWFHGTLSRVKAA
 QLVLAGGPRSHGLFVIRQSETRPGECVLTFFNFQKAKHLRLSLNGHGQCHVQHLWFQSVFDMLRHFHTHP
 IPLESGGSADITLRSYVRAQGGPPDPGPAPNTAAPVPACWTEPAGQHYFSSLATATCPPASPNSGAGASS
 SSGSSSATSLPPRAEGPLSAHSRSNSTEHLDAASGATEEPTATLGRARAVENQYSFY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9076_e03.zip

Restriction Sites: SgfI-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](#)

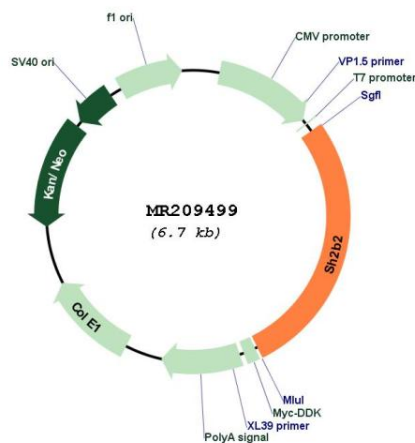
RefSeq Size: 2904 bp

RefSeq ORF: 1866 bp

Locus ID: 23921
UniProt ID: [Q9JID9](#)
Cytogenetics: 5 G2
MW: 66.6 kDa

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 MR209499