

Product datasheet for MR229819

Sh2b2 (NM_001302939) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh2b2 (NM_001302939) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sh2b2
Synonyms:	Aps
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229819 representing NM_001302939 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATGGTGCCACCCAGCTCGGCCCGCCCGCCCGCCAGTCCCGACTGGCGGCAATTCTGCGAGC
TGCACGCGCAGGTGGCTGCTGTGGACTTCGCACACAAGTTCTGCCGCTTCCTTCGGGACAACCCGACCTA
CGACACGCTGACGCTGGGACCTCATTCTCCGCCACTTTGCAGCCAACCTCTTGCTGTCTTCAGTGAG
GAGGTGCCCGCGTGTGGGGTACGAGCCGACACTATGGAACCCGAGCCTGCGGTGACCTCGGTGACAT
CTGCGCTCAAGACTGCAACCTATGGCCACTCCCGCAGCTCCGAGGATGTGTCTGCCACGCGGCTACCAA
GGCGCGTGTCCGAAAGGGATTCTCGCTGCGTAACATGAGCCTGTGTGGTGGATGGAGTGCAGCAGCCTG
TGGCACCAGCGCTCGTCCCAGAGCCCGATGGTGGGGCCACCCCAAGGCCGCGGAGCCTGCGTCCGAGC
CTCGTGACAAATGGACGCGACGCTGCGGCTAGCACGAACCTGGCAGCCAAAGTGGAGTTAGTGGACAT
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TGGCAGAAGTGTGCGCTGCTCCTGCGGAGGGCTGTGGCTGGGGAACGTTCCGCCCTGGAGTTCTTCGTGC
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CCTGGAAATGCCTGAAAAGGACAACACATTTGTGCTCAAGTGGAGAACGAGCAGAATACATCCTGGAA
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GCTCCTGACAGATGCAGACATGCCCCGGCCCCGAGACGACGACAGCGGTGGGTGCTGTGGTCACAGCT
CCACATGGCCGAGCTCGTGACACCGTGGGAGAGTCCCTGGCCACGTTCCCTGGAGACTTTCCTGCAA
CCCTGGAGTCTTCAGGTGGTGTGAGTGAACAATAACCCAGGTACCACTGGGGTCCCCACCCCTTCTA
CAGGGACCCATGTGGAGCCTCAGAAGTGGTACATTTACGCCAGTTGTGTCTACAGTGGTTTTGGCTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR229819 representing NM_001302939
 Red=Cloning site Green=Tags(s)

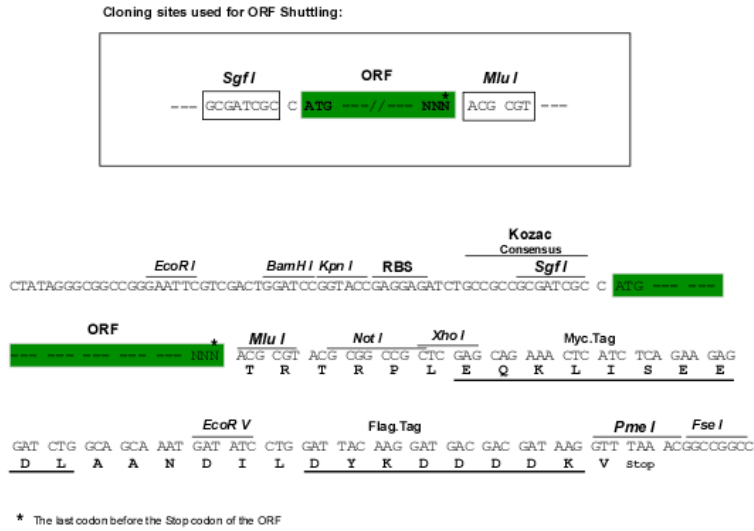
MNGATPSSAAAPAPVPDWRQFCELHAQVAAVDFAHKFCRFLRDNPTYDTPDAGTSFSRHFAANFLAVFSE
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 WHRRSSPEPDGGATPKAAEPASEPRDKWTRRLRLARTLAAKVELVDIQREGALRFMVADDAASGPGGTAQ
 WQKCRLLLRRAVAGERFRLEFFVPPKASRPKVSIPLSAIIIEVRTTMPLEPKDNTFVLKVENGAEYILE
 TIDSLQKHSWADIQGCVDPGDSEEDTGLSCARGGCLASRVASCCELLTDADMPRPPETTTAVGAVVTA
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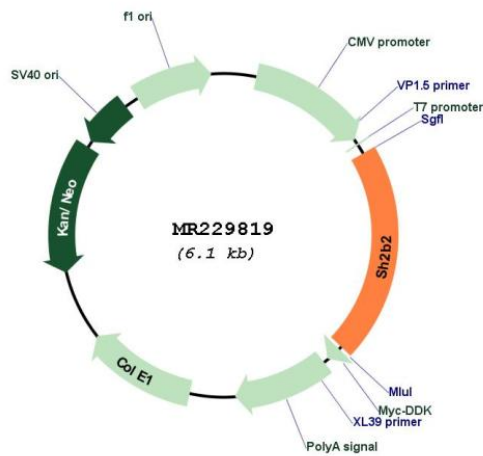
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001302939

ORF Size:	1260 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:	<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:	NM_001302939.1 , NP_001289868.1
RefSeq Size:	1894 bp
RefSeq ORF:	1263 bp
Locus ID:	23921
UniProt ID:	Q9JID9
Cytogenetics:	5 G2
MW:	45.7 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]