

Product datasheet for **RR200245**

Sh2b1 (NM_001048180) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh2b1 (NM_001048180) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sh2b1
Synonyms:	Sh2-b; Sh2b; Sh2bpsm1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR200245 representing NM_001048180
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAATGGTGCCCTTCCCAGAGGATGGGGTTTTCCCTTCTCCACCAGCGCTGCCACCACCCCTCCCC
 CAAGTTGGCAAGAGTTCTGTGAGTCCCATGCGAGGGCTGCTGCCCTGGATCTTGCTCGCCGTTTTCGCCT
 CTATCTGGCCTCCCACCCACAATATGCAGAGCCGGAGCAGAGGCTGCCTTTTCTGGCCGTTTTGTGAG
 CTCTTCTGCAGCACTTCGAAGCTGAGGTGGCTCGGGCCTCGGGCTCACTCTCCACCTGTCTTGGCTC
 CATTGAGCCCTGGTGTGAAATCCCACCATCACATGACCTGTCCCTTGAGAGCTGCAGGGTGGTGGGCC
 CCTGGCAGTGTGGGCCCTTCTCGATCTTCTGAGGACCTGGTGGCCCCCTTCTTCTCAGTCTTTCC
 TCTACAACGTCTCAAAGCCGAAGCTCAAGAAACGCTTCTCCCTCCGCTCGGTGGTCTGTCAGTCAGAG
 GTTCTGTCCGAGGCATCTGCAGTGGCGGGGGCTGTTGAATCTCCCTCCAAGCTGGGCCCTTGGAGAC
 CACATCAGGTCTCCAGTCTAGGTGAAACAGCAACTCCAACCTCTGGTGGTCTGGGACAGTTGGT
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 GGAGGAGGGCAGCCTCAGTGGCAGAAATGTCGATTACTGCTCCGAGTGAAGGAGAAGGAGGAGGAGAA
 GTCGCTTGGAGTTCTTTGTACCACCAAGGCATCCCGGCCCGTCTTAGCATTCCCTGTTCTACTATTAC
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 TCTACCCCGTACCCTCCCCTGGATACTCCTGAAGCAGCCACAGGGTATTCTCTTTCAAGGGGAGGCAG
 AGGGGGTGGAGGGGACCAGCCCTCTCAGGCTACCCTTGGTCCACGGCATGCTCTCTCGGCTCAAAGC
 TGCCAGTTAGTGTAGAAGGAGTACCAGCTCCCATGGTGTCTTCTTGGTACGCCAGAGTGAGACAAGA
 CGTGGTGAATATGTCCTCACTTTCAACTCCAGGGCAAGGCTAAGCACCTGCGTTTGTACTAAATGAGG
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 CCCCATCCCTCTGGAGTCTGGAGGCTCCAGTGTGTTGCTTGTGAGCTATGTGCCCTCCAGCGGCAG
 CAGGGCCGGGAGCAGGCTGGGAGCCATGCAGGGGTGTGCGAGGGCGACCGATGCTACCCCGATGCCTCCT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200245 representing NM_001048180
Red=Cloning site Green=Tags(s)

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MNGAPSPEDGVFPSPPALPPPPPPSWQEFCESHARAAALDLARRFRLYLASHPQYAEPGAEAAFSGRFAE
LFLQHFEAEVARASGSLSPVLAPLSPGVEIPPSHDLLESCRVGGLAVLGPSRSSEDLAGLPSSVSS
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RALANDGTSPGERWTHRFRERLRLSRGGTLRDGAGVIQREELL SFGMAEEAAPDPAGVGRGGAAGLTSG
GGGQPQWQKCRLLLRSEEGGGSRLEFFVPPKASRPRLSIPCSTITDVRTATALEMPDRENTFVVKVEG
PSEYILETTDALHVKAWSYDIQECLSPGPCPAISPRPMTLPLAPGTSFLTKDNTELELPLCLNHSESLPS
QDLLLLGPSESNDRLSQGAYGGLSDRPSASFSPSSASIAASHFDSMELLPELPPRIPIIEEGPPAGTVHPL
STPYPLDTPAATGSFLFQGEAEGGEGDQPLSGYPWFHGMRLKAAQLVLEGGTSSHGVFLVRQSETR
RGEYVLTFFNFQKAKHLRLSLNEEGQCRVQHLWFQSFIDMLEHFRVHPIPLESGGSSDVVLSYVPSQRQ
QGREQAGSHAGVCEGDRCPDASSTLLPFGASDCVTEHLP
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001048180

ORF Size: 2010 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_001048180.1](#), [NP_001041645.1](#)

RefSeq Size: 2791 bp

RefSeq ORF: 2013 bp

Locus ID: 89817

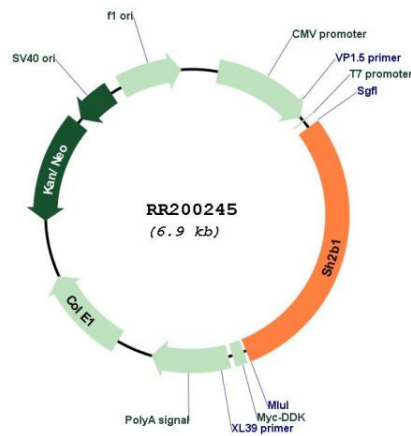
UniProt ID: [Q62985](#)

Cytogenetics: 1q36

MW: 70.9 kDa

Gene Summary: interacts with kinase-active tyrosyl-phosphorylated JAK2 [RGD, Feb 2006]

Product images:



Circular map for RR200245