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Product datasheet for RR200246

Sh2b1 (NM_134456) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh2b1 (NM_134456) 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)

ORF Nucleotide Sequence:

>RR200246 representing NM_134456
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATGGTGCCCCTTCCCCAGAGGATGGGGTTTTCCCTTCTCCACCAGCGCTGCCACCACCCCCTCCCC
CAAGTTGGCAAGAGTTCTGTGAGTCCCATGCGAGGGCTGCTGCCCTGGATCTTGCTCGCCGTTTTCGCCT
CTATCTGGCCTCCCACCCACAATATGCAGAGCCGGGAGCAGAGGCTGCCTTTTCTGGCCGTTTTGCTGAG
CTCTTCCTGCAGCACTTCGAAGCTGAGGTGGCTCGGGCCTCGGGCTCACTCTCCCCACCTGTCTTGGCTC
CATTGAGCCCTGGTGTGGAAATCCCACCATCACATGACCTGTCCCTTGAGAGCTGCAGGGTGGGTGGGCC
CCTGGCAGTGTTGGGCCCTTCTCGATCTTCTGAGGACCTGGCTGGCCCCCTTCCTTCCTCAGTCTCTTCC
TCTACAACGTCCTCAAAGCCGAAGCTCAAGAAACGCTTCTCCCTCCGCTCGGTGGGTCGTTCAGTCAGAG
GTTCTGTCCGAGGCATCCTGCAGTGGCGGGGGGCTGTTGAATCTCCCTCCCAAGCTGGGCCTCTGGAGAC
CACATCAGGTCCTCCAGTTCTAGGTGGAAACAGCAACTCCAACTCCTCTGGTGGTGCTGGGACAGTTGGT
AGGGCATTGGCCAACGATGGCACATCCCCTGGGGAGAGATGGACTCATCGCTTTGAGAGGCTAAGGCTAA
GTCGTGGAGGGGGAACCTTGAGAGACGGAGCAGGAGTGATACAGAGAGAAGAGCTGCTGAGTTTCATGGG
GGCTGAAGAGGCTGCCCCTGACCCAGCAGGAGTAGGTCGTGGAGGAGGGGCAGCTGGGCTGACCTCGGGA
GGAGGAGGGCAGCCTCAGTGGCAGAAATGTCGATTACTGCTCCGGAGTGAAGGAGAAGGAGGAGGAGGAA
GTCGCTTGGAGTTCTTTGTACCACCCAAGGCATCCCGGCCCCGTCTTAGCATTCCCTGTTCTACTATTAC
TGATGTCCGCACAGCCACAGCCCTGGAGATGCCTGACAGGGAGAACACGTTTGTGGTTAAGGTAGAAGGC
CCTTCAGAGTACATCCTGGAGACAACTGATGCACTTCATGTGAAGGCCTGGGTGTCTGACATCCAAGAGT
GCCTAAGCCCAGGACCCTGCCCTGCTATCAGCCCCCGTCCCATGACCCTTCCCCTGGCCCCTGGGACCTC
CTTCCTCACAAAGGATAACACAGAGAGCCTGGAGTTGCCCTGCCTGAATCATTCAGAGAGTCTGCCTAGC
CAGGATCTTCTTCTGGGACCCAGCGAGAGTAACGACCGCCTGTCGCAGGGAGCTTATGGAGGCCTCTCAG
ACCGGCCGTCAGCGTCCTTCTCCCCTAGTTCTGCCTCCATTGCTGCTTCCCATTTTGACTCAATGGAACT
GCTTCCTCCAGAGTTGCCCCCTCGGATTCCCATTGAGGAGGGGCCTCCAGCAGGGACAGTTCATCCCCTC
TCTACCCCGTACCCTCCCCTGGATACTCCTGAAGCAGCCACAGGGTCATTCCTCTTTCAAGGGGAGGCAG
AGGGGGGTGAGGGGGACCAGCCCCTCTCAGGCTACCCTTGGTTCCACGGCATGCTCTCTCGGCTCAAAGC
TGCCCAGTTAGTGTTAGAAGGAGGTACCAGCTCCCATGGTGTCTTCTTGGTACGCCAGAGTGAGACAAGA
CGTGGTGAATATGTCCTCACTTTCAACTTCCAGGGCAAGGCTAAGCACCTGCGTTTGTCACTAAATGAGG
AGGGTCAGTGCCGGGTCCAACATCTGTGGTTCCAGTCCATTTTCGATATGCTTGAGCACTTCCGGGTGCA
CCCCATCCCTCTGGAGTCTGGAGGCTCCAGTGATGTTGTCCTTGTCAGCTATGTGCCCTCCCAGCGGCAG
CAGGAACGGAGCACCTCCCGTGATCCAACCCAGCCCTCTGAACCCCCTCCATGGACAGATCCCCCACATC
CTGGGGCAGAAGAGGCGTCGGGGGCGCCAGAAGTGGCGGCAGCCACAGCCGCAGCAGCCAAAGAGAGGCA
AGAGAAGGAGAAAGCGGGCGGCGGAGGGGTCCAGGAAGAGCTGGTCCCCATGGCTGAGCTGGTCCCCATG
GCTGAATTGGAAGAGGCCATAGCACCAGGCACTGAGGCTCAGGGTGGTGCTGGCTCTAGTGGGGACTTGG
AGGTGTCCCTAATGGTTCAGCTCCAGCAGTTACCACTAGGGGGCAACGGAGAAGAAGGGGGTCACCCCCG
AGCCATTAATAACCAGTACTCATTTGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

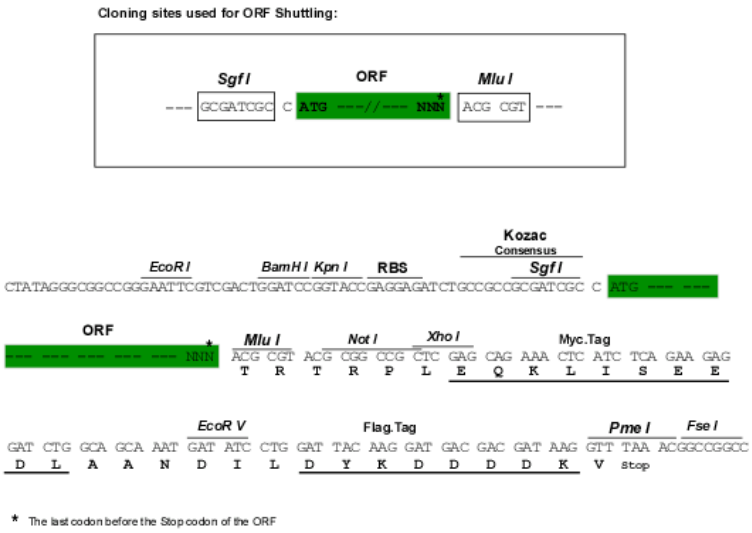
>RR200246 representing NM_134456
Red=Cloning site Green=Tags(s)

MNGAPSPEDGVFPSPPALPPPPPPSWQEFCESHARAAALDLARRFRLYLASHPQYAEPGAEAAFSGRFAE
LFLQHFEAEVARASGSLSPPVLAPLSPGVEIPPSHDLSLESCRVGGPLAVLGPSRSSEDLAGPLPSSVSS
STTSSKPKLKKRFSLRSVGRSVRGSVRGILQWRGAVESPSQAGPLETTSGPPVLGGNSNSNSSGGAGTVG
RALANDGTSPGERWTHRFERLRLSRGGGTLRDGAGVIQREELLSFMGAEEAAPDPAGVGRGGGAAGLTSG
GGGQPQWQKCRLLLRSEGEGGGGSRLEFFVPPKASRPRLSIPCSTITDVRTATALEMPDRENTFVVKVEG
PSEYILETTDALHVKAWVSDIQECLSPGPCPAISPRPMTLPLAPGTSFLTKDNTESLELPCLNHSESLPS
QDLLLGPSESNDRLSQGAYGGLSDRPSASFSPSSASIAASHFDSMELLPPELPPRIPIEEGPPAGTVHPL
STPYPPLDTPEAATGSFLFQGEAEGGEGDQPLSGYPWFHGMLSRLKAAQLVLEGGTSSHGVFLVRQSETR
RGEYVLTFNFQGKAKHLRLSLNEEGQCRVQHLWFQSIFDMLEHFRVHPIPLESGGSSDVVLVSYVPSQRQ
QERSTSRDPTQPSEPPPWTDPPHPGAEEASGAPEVAAATAAAAKERQEKEKAGGGVQEELVPMAELVPM
AELEEAIAPGTEAQGGAGSSGDLEVSLMVQLQQLPLGGNGEEGGHPRAINNQYSFV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_134456

ORF Size: 2268 bp

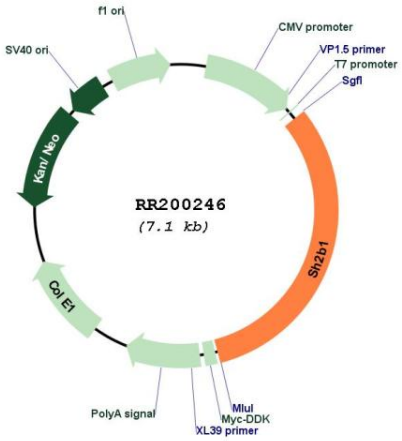
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_134456.3, NP_604451.2
RefSeq Size:	2991 bp
RefSeq ORF:	2271 bp
Locus ID:	89817
UniProt ID:	Q62985
Cytogenetics:	1q36
MW:	79.6 kDa
Gene Summary:	interacts with kinase-active tyrosyl-phosphorylated JAK2 [RGD, Feb 2006]

Product images:



Circular map for RR200246