

Product datasheet for **RC227893**

SH2B1 (NM_001145797) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH2B1 (NM_001145797) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SH2B1
Synonyms:	PSM; SH2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC227893 representing NM_001145797
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAATGGTGCCCTTCCCAGAGGACGGGGCCTCCCCCTCGTCTCCCCCGCTGCCCCACCCCCGCCCC
 CTAGTTGGCGGGAGTTCTGTGAGTCCCACGCCGGGCTGCGGCTCTGGACTTTGCCCGCCGTTTTCGCCT
 CTACCTGGCCTCCCACCCCAATATGCGGGGCCGGGGCCGAGGCTGCCTTCTCCCGCGTTTTGTGAG
 CTCTTCTGCAGCACTTTGAAGCCGAGGTGGCCCGGGCCTCTGGCTCCCTGTCGCCACCCATCTGGCTC
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 GCCTGAGCCCAGGACCCCTGCCCTGCTACCAGTCCCCGCCCATGACCCCTCCCTTGGCCCTGGACCTC
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 GCTTCCCCCAGAGTTGCCCCCCGCATCCCCATTGAAGAGGGACCCCAACAGGGACAGTTCATCCCTC
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 AGGGCGGTGAGGGGGACAGCCCCTCTCAGGGTATCCTTGGTTCCACGGGATGCTCTCTCGGCTCAAGG
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 CAGCAGGGTGAAGCAGAGCAGGTCTGAGGGGAGGAGGTGCCCGTGCACCAAGAAGTGAAGCCGGGAGCA
 GGCTGGGAGCCATGCGGGGTGTGCGAGGGAGATGGATGCCACCCCGATGCCTCTGCACCTCATGCC
 TTCGGAGCGAGTGACTGTG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227893 representing NM_001145797
 Red=Cloning site Green=Tags(s)

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MNGAPSPEDGASPPSPPLPPPPPPSWREFCESHARAAALDFARRFRLYLASHPQYAGPGAEEAFSRRFAE
LFLQHFEAEVARASGSLSPPI LAPLSPGAEISPHDL SLESCRVGGLAVLGP SRSEDLAGPLPSSVSSS
STTSSKPKLKKRFSLRSVGRSVRGSVRGILQWRGTVDPPSSAGPLETSSGPPVLGGNSNSNSGGGAGTVG
RGLVSDGTSPGERWTHRFRERLRLSRGGGALKDAGMVQREELL SFGMAEEAAPDPAGVGRGGVAGPPSG
GGGQPQWQKCRLLLRSEGE GGGSRLEFFVPPKASRPRLSIPCSSITDVRTTTALEMPDRENTFVVKVEG
PSEYIMETVDAQHVKAWSVDIQECLSPGPCPATSPRPMTLPLAPGTSFLTRENTDSLELSCLNHSESLPS
QDLLLGPSESNDRLSQGAYGGLSDRPSASISPPSSASIAASHFDSMELLPELPPRIPIIEEGPPTGTVHPL
SAPYPLDTPETATGSFLFQGEPEGGEDQPLSGYPWFHGMLSRLKAAQLVLTGGTGS HVFLVRQSETR
RGEYVLT FNFGKAKHLRLSLNEEGQCRVQHLWFQSI FDMLEHFRVHPIPLESGGSSDVVLSYVPPSSQR
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8072_g11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145797

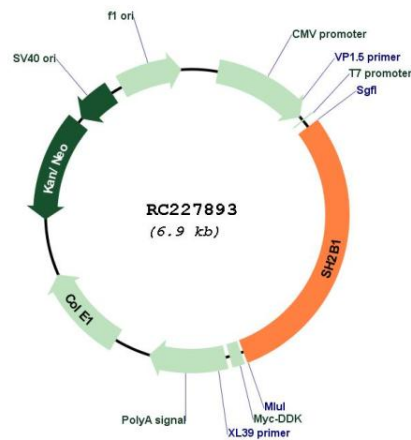
ORF Size: 2049 bp

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:	<u>NM_001145797.1, NP_001139269.1</u>
RefSeq ORF:	2052 bp
Locus ID:	25970
UniProt ID:	<u>Q9NRF2</u>
Cytogenetics:	16p11.2
Protein Pathways:	Neurotrophin signaling pathway
MW:	72 kDa
Gene Summary:	This gene encodes a member of the SH2-domain containing mediators family. The encoded protein mediates activation of various kinases and may function in cytokine and growth factor receptor signaling and cellular transformation. Alternatively spliced transcript variants have been described. [provided by RefSeq, Mar 2009]

Product images:



Circular map for RC227893