

Product datasheet for **RC227858**

SH2B1 (NM_001145812) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH2B1 (NM_001145812) 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)



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ORF Nucleotide Sequence:

>RC227858 representing NM_001145812
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAATGGTGCCCTTCCCAGAGGACGGGGCCTCCCCCTCGTCTCCCCCGCTGCCCCACCCCGCCCC
 CTAGTTGGCGGGAGTTCTGTGAGTCCCACGCCGGCTGCGGCTCTGGACTTTGCCCGCCGTTTTCGCCT
 CTACCTGGCCTCCCACCCCAATATGCGGGGCCGGGGCCGAGGCTGCCTTCTCCCGCGTTTTGTGAG
 CTCTTCTGCAGCACTTTGAAGCCGAGGTGGCCCGGGCCTCTGGCTCCCTGTCGCCACCCATCTGGCTC
 CCCTGAGCCCTGGTGGGAGATTTCGCCACATGACCTGTCCCTTGAGAGCTGCAGGTGGTGGGCCCT
 GGCTGTGTGGGCCCTTCTCGATCATCTGAGGACCTGGCCGGCCCTCCCTTCTCAGTCTTCTCTCC
 TCTACAACCTCTCAAGCCGAAGCTCAAGAAGCGTTTTCCCTGCGTTCAGTGGTTCGCTGTCCGAG
 GCTCAGTCCGTGGCATCTCGAGTGGCGGGGACCGTTGACCCTCCCTCCGCTGGGCCCTGGAGAC
 CTGCTCAGGCCCCAGTCTTAGGTGAAACAGCAACTCCAACCTCTGGCGGGCTGGGACCGTTGGT
 AGGGGACTGGTCACTGATGGAACGTCCCTGGGAAAGATGGACTCACCGTTTTGAGAGGCTGAGACTCA
 GTCGGGGAGGGGGCGCCTTGAAGGATGGAGCAGGGATGGTGCAGAGGGAAGAGCTGCTGAGTTTCATGGG
 GGCTGAGGAGGCAGCCCTGACCCAGCCGAGTGGGCCGGGGAGGAGGGGTGGCTGGGCCTCCTTACGGG
 GGAGGAGGGCAGCCCTCAGTGGCAGAAGTGTGCGCTGCTGCTTGAAGTGAAGGAGAAGGAGGAGGAGAA
 GTGCGCTGGAGTTCTTTGTACCACCAAGGCCCTCTCGGCCCGACTCAGCATCCCTGCTTCTATCAC
 AGAGTCCGACAACACAGCCCTGGAGATGCCTGACCGGGAGAACACGTTTGTGGTTAAGGTGGAAGGT
 CCATCCGAGTATATCATGGAGACAGTGGATGCCAGCATGTGAAGGCCTGGTGTCTGACATCCAAGAAT
 GCCTGAGCCCAGGACCCCTGCCCTGCTACCAGTCCCCGCCCATGACCCTCCCTCTGGCCCTGGGACCTC
 ATTCTTTACAAGGAGAACACAGACAGCCTGGAGCTGCTGCTGAATCACTCGGAGAGTCTACCCAGC
 CAGGACCTGCTGCTTGGACCCAGCGAGCAATGACCGCCTGTCGAGGGGGCATATGGGGCCTCTCAG
 ACCGCCCTCGGCATCCATCTCCCCAGCTCTGCCTCCATTGCCGCTCCCATTTTGACTCGATGGAAC
 GCTTCCCCCAGAGTTGCCCCCCGCATCCCCATTGAAGAGGGACCCCAACAGGGACAGTTCATCCCTC
 TCAGCCCCCTACCCTCCCTTGGACTCCGAAACAGCCACAGGGTCTTCTGTTCCAGGGGGAGCCAG
 AGGGCGGTGAGGGGGACCAGCCCTCTCAGGGTATCCTTGGTTCCACGGGATGCTCTCTCGGCTCAAGGC
 TGCACAGTTGGTCTGACTGGCGGCACTGGCTCCACGGTGTCTTCTGGTGCGCCAGAGTGAACAAGG
 CGGGTGAATACGTCCTCACCTTCAACTCCAGGGCAAGGCCAAGCACCTGCGTTTGTGCTGAACGAGG
 AGGGTCAGTGCCGGTCCAGCACCTGTGTTCCAGTCCATTTTCGATATGCTCGAGCACTCCGGGTGCA
 CCCCATCCCTTTGGAGTCGGGAGGCTCCAGTGTGTTGCTTGTGCTGCTGATGTCATCCATCTCCAGCGA
 CAGCAGGGCCGGGAGCAGGCTGGGAGCCATGCGGGGGTGTGCGAGGGAGATGGATGCCACCCCGATGCC
 CCTGCACCCTCATGCCCTTCGGAGCGAGTACTGTGTAACCGACCACCTCCCA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227858 representing NM_001145812
Red=Cloning site Green=Tags(s)

MNGAPSPEDGASPSSPPLPPPPPPSWREFCESHARAAALDFARRFRLYLASHPQYAGPGAEEAFSRRFAE
 LFLQHFEAEVARASGSLSPILAPLSPGAEISPHDLSESCRVGGLAVLGPSSRSEDLAGPLPSSVSS
 STTSSKPKLKKRFSLRVSVGRSVRGSVRGILQWRGTVDPPSSAGPLETSSGPPVLGGNSNSNSGGAGTVG
 RGLVSDGTSPGERWTHRFRERLRLSRGGALKDGAGMVQREELL SFGMAEEAAPDPAGVGRGGVAGPPSG
 GGGQPQWQKCRLLLRSEEGGGSRLEFFVPPKASRPRLSIPCSSITDVRTTTALEMPDRENTFVVKVEG
 PSEYIMETVDAQHVKAWSIDIQECLSPGPCPATSPRPMTLPLAPGTSFLTRENTDSLELSCLNHSESLPS
 QDLLLLGPSESNDRLSQGAYGGLSDRPSASISPSASIAASHFDSMELLPELPPRIPIIEGPPTGTVHPL
 SAPYPLDTPETATGSFLFQGEPEGGEDQPLSGYPWFHGMRLKAAQLVLTGGTGSHGVLVRQSETR
 RGEYVLTNFQGKAKHLRLSLNEEGQCRVQHLWFQSFIDMLEHFRVHPIPLESGGSSDVVLSYVPSQR
 QQGREQAGSHAGVCEGDGCHPDASCTLMFPGASDCVTDHLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001145812

ORF Size: 2013 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_001145812.1](#), [NP_001139284.1](#)

RefSeq ORF: 2016 bp

Locus ID: 25970

UniProt ID: [Q9NRF2](#)

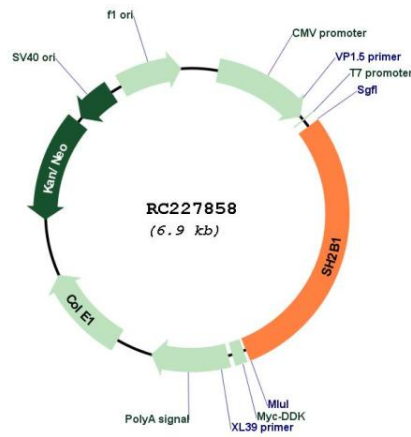
Cytogenetics: 16p11.2

Protein Pathways: Neurotrophin signaling pathway

MW: 70.6 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 RC227858