

Product datasheet for **SC326610**

SH2B1 (NM_001145797) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH2B1 (NM_001145797) Human Untagged Clone
Tag:	Tag Free
Symbol:	SH2B1
Synonyms:	PSM; SH2B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_001145797 edited
 ATGAATGGTGCCCTTCCCCAGAGGACGGGGCCTCCCCCTCGTCTCCCCCGCTGCCCCCA
 CCCCCGCCCTAGTTGGCGGGAGTTCTGTGAGTCCCACGCCCGGGTGCGGCTCTGGAC
 TTTGCCCGCCGTTTTTCGCTCTACCTGGCTCCCACCCCCAATATGCGGGGCCCGGGGCC
 GAGGCTGCCTTCTCCCGCGTTTTGCTGAGCTTCTCTGCAGCACTTTGAAGCCGAGGTG
 GCCCGGGCCTCTGGCTCCCTGTCCGCCACCACTCCTGGCTCCCCCTGAGCCCTGGTGCAGG
 ATTTCCGCACATGACCTGTCCCTTGAGAGCTGCAGGGTGGTGGGCCCTGGCTGTGCTG
 GGCCCTTCTCGATCATCTGAGGACCTGGCCGGCCCCCTCCCTTCCTCAGTCTTCTCTCC
 TCTACAACCTCCTCCAAGCCGAAGCTCAAGAAGCGCTTTTCCCTGCGTTCAGTGGGTGCG
 TCTGTCCGAGGCTCAGTCCGTGGCATCCTGCAGTGGCGGGGACCGTTGACCCTCCCTCC
 TCCGCTGGGCCCTGGAGACCTCGTCAGGCCCCCCAGTCTTAGGTGGAACAGCAACTCC
 AACTCCTCTGGCGGGCTGGGACCGTTGGTAGGGACTGGTCAGTGATGGAACGTCCCCT
 GGGGAAAGATGGACTCACCGTTTTGAGAGGCTGAGACTCAGTCGGGGAGGGGGCGCCTTG
 AAGGATGGAGCAGGGATGGTGCAGAGGGAAGAGCTGCTGAGTTTCATGGGGCTGAGGAG
 GCAGCCCTGACCCAGCCGGAGTGGCCGGGGAGGAGGGTGGCTGGGCCCTCTCAGGG
 GGAGGAGGGCAGCCTCAGTGGCAGAAGTGTCCCTGCTGCTTCAAGTGAAGGAGAAGGA
 GGAGGAGGAAGTCGCTGGAGTTCTTTGTACCACCCAAGGCCTCTCGGCCCGACTCAGC
 ATCCCCTGCTCTTCTATCACAGACGTCCGGACAACCACAGCCCTGGAGATGCCTGACCGG
 GAGAACACGTTTTGTGTTAAGGTGGAAGGTCCATCCGAGTATATCATGGAGACAGTGGAT
 GCCCAGCATGTGAAGGCCTGGGTGTCTGACATCCAAGAATGCCTGAGCCAGGACCTGC
 CCTGCTACCAGTCCCCGCCCATGACCTCCCTCTGGCCCCTGGGACCTCATTCTTACA
 AGGGAGAACACAGACAGCCTGGAGCTGTCTGCCTGAATCACTCGGAGAGTCTACCCAGC
 CAGGACTGTGCTTGGACCCAGCGAGAGCAATGACCCCTGTCCGAGGGGGCATATGGG
 GGCTCTCAGACCGCCCCCTCGGCATCCATCTCCCCAGCTCTGCCTCATTGCGCGCTCC
 CATTTTGACTCGATGAACTGCTTCCCCAGAGTTGCCCCCGCATCCCCATTGAAGAG
 GGACCCCGCAGCAGGGACAGTTCATCCCCTCTCAGCCCCCTACCCTCCCTTGGACTCCG
 GAAACAGCCACAGGGTCTTCTGTTCCAGGGGGAGCCAGAGGGCGGTGAGGGGGACCAG
 CCCCTCTCAGGGTATCCTTGGTTCCACGGGATGCTCTCTCGGCTCAAGGCTGCACAGTTG
 GCGCTGACTGGCGGCACTGGCTCCCACGGTGTCTTCTGGTGCGCCAGAGTGAGACAAGG
 CGGGGTGAATACGTCCTCACCTCAACTCCAGGGCAAGGCCAAGCACCTGCGTTTTGTCG
 CTGAACGAGGAGGTCAGTGCCGGTCCAGCACCTGTGGTTCCAGTCCATTTTCGATATG
 CTCGAGCACTTCCGGGTGCACCCATCCCTTTGGAGTCGGGAGGCTCCAGTGATGTTGTC
 CTTGTACGCTATGTCCCATCCTCCCAGCGACAGAGGGTGAAGCAGAGCAGGTCTGCAGGG
 GAGGAGGTGCCCGTGCACCCAAGAAGTGAAGCCGGGAGCAGGCTGGGAGCCATGCGGGGG
 TGTGCGAGGGAGATGGATGCCACCCGATGCCTCCTGCACCCATGCCCCTCGGAGCGA
 GTGACTGTGTAACCGACCACTCCCATGACCCACCCAGCCCCCTGAACCCCTTCATGG
 ACAGATCCCCACAGCCTGGGGCAGAAGAGGCGTCGAGGGCGCCAGAAGTGGCGGCAGCA
 GCAGCCGACAGCCAAAGAGAGGCAAGAGAAAAGAAAAGCGGGCGGTGGAGGGTCCCC
 GAAGAGCTGGTCCCCGTGGTTGAGCTGGTCCCCGTGGTTGAATTGGAAGAGGCCATAGCC
 CCAGGCTCAGAGGCCAGGGCGCTGGGTCTGGTGGGACCGGGGGTCCCCCAATGGTG
 CAGCTGCAGCAGTCACTACTAGGGGTGATGGAGAGGAAGGGGGCCACCCAGGGCCATT
 AACAAACAGTACTCCTTCGTGTGAGCAACCCACCCGCTCCACCTTTTTAAACCCCC
 AGCCCTGCTCGTGAATTGGGCTGGGTAGGGACAGAGGAGCCGAAATCCCTCCCCCATG
 CTTCTGACCCTTGTGGCCAAGGGCATCTTTGATGGTACAAGCAGAGGCTCGGGAGAGG
 CTCCCGTACACACTACAGTCCCCTCCCAGGGCAGGGGATTTGGGCTCCATGAGCTCC
 TTGAGGGGCTCTTCTGGTCAGCCCCACCCTGGGGGCCATTTCCCATAACTACCCCCAG
 CCCGAGGCAGGGTGAAGGGGAAGGGCTGTGAGTTACATTAAGGTGTTGTTGTTGTT
 TTAACAAAATGGAGAAGCATAAATAAATAAAAAGGTTTATCTCGGTTCTATCGTAAAA
 AAAAAAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:	NM_001145797
Insert Size:	2800 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to contain 2 SNPs compared with NM_001145797.1.
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 Size:	3099 bp
RefSeq ORF:	2052 bp
Locus ID:	25970
UniProt ID:	<u>Q9NRF2</u>
Cytogenetics:	16p11.2
Protein Pathways:	Neurotrophin signaling pathway
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) uses an alternate splice site and contains an alternate exon in the 3' coding region, which results in frameshift and an early stop codon compared to variant 1. The resulting protein (isoform 3), also known as SH2B adaptor protein 1 gamma, is shorter and has a distinct C-terminus compared to isoform 1.</p>