

## Product datasheet for **SC304322**

### SH2B1 (NM\_015503) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SH2B1 (NM_015503) Human Untagged Clone
Tag:	Tag Free
Symbol:	SH2B1
Synonyms:	PSM; SH2B
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC326606 sequence for NM\_001145812 edited (data generated by NextGen Sequencing)

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ATGAATGGTGCCCTTCCCAGAGGACGGGGCCTCCCCTCGTCTCCCCCGCTGCCCCACCCCCGCCC
CTAGTTGGCGGGAGTTCTGTGAGTCCCACGCCGGGCTGCGGCTCTGGACTTTGCCCGCGTTTTGCGCT
CTACCTGGCCTCCACCCCAATATGCGGGGCCCGGGCCGAGGCTGCCTTCTCCCGCGTTTTGCTGAG
CTCTTCTGCAGCACTTTGAAGCCGAGGTGGCCCGGGCCTCTGGCTCCCTGTCGCCACCCATCCTGGCTC
CCCTGAGCCCTGGTTCGGGAGATTTGCCACATGACCTGTCCCTTGAGAGCTGCAGGGTGGTGGGCCCT
GGCTGTGCTGGGCCCTTCTCGATCATCTGAGGACCTGGCCGGCCCCCTCCCTTCTCAGTCTTCTCTCC
TCTACAACCTCTCCAAGCCGAAGCTCAAGAAGCGTTTTCCCTGCGTTCAGTGGGTGCTCTGTCCGAG
GCTCAGTCCGTGGCATCCTGCAGTGGCGGGGACCGTTGACCCTCCCTCCTCCGCTGGGCCCTGGAGAC
CTCGTCAGGCCCCAGTCTTAGGTGAAACAGCAACTCCAACCTCTGGCGGGGCTGGGACCGTTGGT
AGGGGACTGGTCACTGATGGAACGTCCCCTGGGAAAGATGGACTCACCGTTTTGAGAGGCTGAGACTCA
GTCGGGGAGGGGCGCCTTGAAGGATGGAGCAGGGATGGTGCAGAGGGAAGAGCTGCTGAGTTTCATGGG
GGCTGAGGAGGCAGCCCTGACCAGCCGAGTGGGCCGGGGAGGAGGGTGGCTGGGCCTCCTTACAGG
GGAGGAGGGCAGCCTCAGTGGCAGAAGTGTGCGCTGCTGCTTGAAGTGAAGGAGAAGGAGGAGGAGAA
GTCGCCTGGAGTTCTTTGTACCACCAAGGCCTCTCGGCCCGACTCAGCATCCCCTGCTTCTATCAC
AGACGTCCGGACAACCACAGCCCTGGAGATGCCTGACCGGGAGAACACGTTTTGTGGTTAAGTGGAAGGT
CCATCCGAGTATATCATGGAGACAGTGGATGCCAGCATGTGAAGGCCTGGGTGTCTGACATCCAAGAT
GCCTGAGCCCAGGACCTGCCCTGCTACCAGTCCCCGCCCATGACCCTCCCTTGGCCCTGGGACCTC
ATTCCTTACAAGGAGAGAACAGACAGCCTGGAGCTGTCTGCTGAATCACTCGGAGAGTCTACCCAGC
CAGGACCTGCTGCTTGGACCCAGCGAGAGCAATGACCCTGTGCGAGGGGGCATATGGGGCCTCTCAG
ACCGCCCTCGGCATCCATCTCCCCAGCTCTGCCTCCATTGCCGCTCCCATTTTACTCGATGGAAC
GCGTCCCCCAGAGTTGCCCCCCGCATCCCCATTGAAGAGGGACCCAGCAGGGACAGTTCATCCCTC
TCAGCCCCCTACCCTCCCTTGGACTCCGAAACAGCCACAGGGTCTTCTGTTCCAGGGGGAGCCAG
AGGGCGGTGAGGGGGACAGCCCTCTCAGGGTATCCTTGGTTCCACGGGATGCTCTCTCGGCTCAAGGC
TGCACAGTTGGCGCTGACTGGCGGCACTGGCTCCACGGTGTCTTCTGGTGCGCCAGAGTGAACAAGG
CGGGGTGAATACGTCCTCACCTCAACTCCAGGGCAAGGCCAAGCACCTGCGTTTGTGCTGAACGAGG
AGGGTCAGTCCCGGTCCAGCACCTGTGGTTCCAGTCCATTTTCGATATGCTCGAGCACTCCGGGTGCA
CCCCATCCCTTTGGAGTGGGAGGCTCCAGTGTGTTGCTTGTGCTGATGCTCCATCCTCCAGCGCA
CAGCAGGGCCGGGAGCAGGCTGGGAGCCATGCGGGGGTGTGCGAGGGAGATGGATGCCACCCCGATGCCT
CCTGCACCCTCATGCCCTTCGGAGCGAGTACTGTGTAACCGACCACCTCCCATGA
    
```

Clone variation with respect to NM\_001145812.1  
 1403:g=>t 1450:g=>a 1622:c=>t

- Restriction Sites:** Please inquire
- ACCN:** NM\_015503
- 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_015503.1</a> , <a href="#">NP_056318.1</a>
<b>RefSeq Size:</b>	4876 bp
<b>RefSeq ORF:</b>	2016 bp
<b>Locus ID:</b>	25970
<b>UniProt ID:</b>	<a href="#">Q9NRF2</a>
<b>Cytogenetics:</b>	16p11.2
<b>Protein Pathways:</b>	Neurotrophin signaling pathway
<b>Gene Summary:</b>	<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 (2) differs in the 5' UTR and contains an alternate exon in the 3' coding region, which results in a frameshift and an early stop codon compared to variant 1. The resulting protein (isoform 2), also known as SH2B adaptor protein 1 beta, is shorter and has a distinct C-terminus compared to isoform 1. Variants 2, 3 and 4 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>