

Product datasheet for **SC314274**

SH2B2 (NM_020979) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH2B2 (NM_020979) Human Untagged Clone
Tag:	Tag Free
Symbol:	SH2B2
Synonyms:	APS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF:

```
>OriGene sequence for NM_020979 edited
GAGGCGCTCTGCCCGCGCCCTCCTCACTTCTTCTCCCTGGGGATGGATCCAAGCTAT
TGTCTGCCCATGGCTTCCCATCTCAGGACCCTCTCTGGCCGCTATCATCCCAGCAGTGG
AGTTTCAGCCCACTACTCTGAACCAGCCGAGGTGGCTGCGATGGGACGGAAGCCATGAAT
GGTGCCGGCCCTGGCCCCGCCAGCCGCCCGGTCCCAGTCCCAGTCCCAGTCCCAGTCCCAGT
TGGCGGCAGTTCTGCGAGCTGCATGCGCAGGCGCCGCGTGGACTTTGCGCACAAGTTC
TGCCCTTTCCTGCGGGACAACCCAGCTTACGACACGCCCGACGCCGGCGCCTCCTTCTCC
CGCCACTTCGCCCGCAACTTCTGGACGCTTTCGGCGAGGAGGTGCGCCCGTGTGGTG
GCTGGGCCGACGACTCGGGGCGCGGCGGTGAGCGCAGAGGCCATGGAGCCGGAGCTCGCG
GACACCTCTGCACTCAAGGCGGCGCCCTACGGCCACTCGCGGAGCTCGGAGGACGTGTCC
ACGCACGCGGCCACCAAGG: CCCGCGTTCGCAAGGGCTTCTCGCTGCGCAACATGAGCCT
GTGCGTGGTGGACGGCGTGCAGCAGATGTGGCACCAGCGCGCCTCGCCCGAGCCGACGC
GGCAGCTGCCCGCGCACCGCCGAGCCCGCGACAAGTGGACGCGGCGCCTGAGGCTGTC
GCGGACGCTGGTGCACAGGTGGAGCTGGTGGACATTCAACGCGAGGGGGCGCTGCGCTT
CATGGTGGCCGACGACGCGGCGCGGGTCCGGGGGCTCGGCTCAGTGGCAGAAGTGCCG
CCTGCTCCTGCGCAGGGCTGTGGCCGAGGAACGCTTCCGCTGGAGTTCTTCGTGCCGCC
CAAAGCCTCCAGGCCAAGGTGACGATCCCACTGTGAGCCATCATTGAGGTCCGACCCAC
CATGCCCTGGAAATGCCAGAGAAGGATAACACATTCGTCTCAAGGTAGAGAATGGAGC
CGAATACATCTTGAGACCATCGACTCTCTGCAGAAGCACTCGTGGGTAGCTGACATCCA
GGGCTGCGTGGACCCCGGTGACAGTGGAGGAGACACCGAGCTCTCCTGTACCCGAGGAGG
CTGTCTGGCCAGCCGCGTGGCCTCCTGCAGCTGTGAGCTCCTGACTGATGTGACCTGCC
CCGCCCCCAGAGACGACAGCCGTGGGTGACAGTGGTACAGCCCCCAGCCGAGGTGCG
AGATGCCGTGAGAGAATCCCTGATCCACGTCCCGCTAGAGACCTTCTGCAGACCTGGA
ATCCCCGGGCGGCAGCGCAGTGACAGCAATAACACAGGGGAACAGGGTGCAGAGACGGA
TCCCGAGGCTGAACCCGAGCTGGAGCTATCCGACTACCCATGGTTCCACGGGACACTGTC
CCGGGTCAAGGCTGCTCAACTGGTTCTGGCAGGGGGGCCCGGAACACGGCCTTCTCGT
GATCCGCCAAAGTGAGACTCGGCCTGGGGAGTACGTGCTGACCTTCAACTCCAGGGCAA
GGCCAAGCACCTGCGCCTGTCCCTGAACGGCCACGGCCAGTGTACGTACAGCATCTGTG
GTTCCAGTCTGTGCTTGACATGCTCCGCCACTTCCACACACACCCCATCCCACTGGAGTC
AGGGGGCTCGGCCGACATCACCTTCGAGCTATGTGCGGGCCAGGACCCCCACCAGA
GCCGGGCCCCACCCCCCTGCCGCGCCCGCTCCCGGCTGCTGGAGGACTCGCCCGG
CCAGCACTACTTCTCAGCCTCGCCGCGCCGCTGCCCGCTGCTCGCCCTCGCCTCCGACGC
CGCCGGCGCCTCCTCGTCTTCCGCTCGTCTGCTGCTGCTGCGCGCTCGGGGCCCGCCCCC
GCGCCCCGTGAGGGCCAGCTCAGCGCGCGGAGCCGACAGCAACAGCGCCGAGCGCCTGCT
GGAGGCGGTGGCCGCCACCGCCCGGAGGAGCCCCGGAGGCCGCGCCGGCCGCGCGCGG
CGCCGTGGAGAACCAGTACTCTTCTACTAGCCCCGCGCGCCCGCCGGTGGGACACGCC
AAGCTCTCAGTGAAGACACGATGTTATTAAGCCTGTTTTAGGGACTGCAAAAAAAAA
AAAAAAAA
```

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020979 unedited
 GGTTCAAATTTTGTATACGAACTCACTATAGGGCGGCCGGAATTCGCACGAGGAGGCGC
 TCTGCCGCGGCCCTCCTCACTTCTTCTCCCTGGGGATGGATCCAAGCTATTGTCCTG
 CCCATGGCTTCCCATCTCAGGACCCTCTCTGGCCGCTATCATCCCAGCAGTGGAGTTCAG
 CCCACTACTCTGAACCAGCCGAGGTGGCTGCGATGGGACGGAAGCCATGAATGGTGCCG
 GCCCTGGCCCCGCGCAGCCGCCCGGTCCCAGTCCCAGTCCCAGTCCCAGTCCCAGTCCCAGT
 AGTTCTGCGAGCTGCATGCGCAGGCGGCCGCGTGGACTTTGCGCACAAGTTCTGCCGTT
 TCCTGCGGGACAACCCAGCTTACGACACGCCCGACGCCGCGCCTCCTTCTCCCGCCACT
 TCGCCGCCAACTTCTTGACGTCTTCGGCGAGGAGGTGCGCCGCTGCTGGTGGCTGGGG
 CGACGACTCGGGGCGCGCCGTGAGCGCAGAGGCCATGGAGCCGGAGCTCGCGGACACCT
 CTGCACTCAAGGCGGCGCCCTACGGCCACTCGCGGAGCTCGGAGGACGTGCCACGCACG
 CGGCCACCAAGGCCCGCTTCGCAAGGGCTTCTCGCTGCGCAACATGAGCCTGTGCGTGG
 TGGACGGCGTGCAGCAGATGTGGCACCGCGCGCCTCGCCGAGCCCGACGCGGCAGCTG
 CCCCGCGCACCGTCCGAGCCCGCGACAAGTGGACGCGCGCCTGAGGCTGTGCGGACGC
 TGGCTGCCAGGTGGAGCTGGTGGACATTACGCGAGGGGGCTGCGCTTCATGGTGGCCG
 ACGACGCGCCCGGCTNCGGGGGCTCGGCTCAATGGCAGAAATGCCGCTGCTCTGCGCA
 GGGCTGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_020979 unedited
 GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGCAGTCCCTAAAACAGGCTTTTA
 ATAACATCGTGTCTTCACTGAAGAGCTTGGCGTGTCCACCCGGCGCGCCGCGGGCTA
 GTAGAAGGAGTACTGGTTCTCCACGGCGCGCGCGGCCGGGCGCGCCCTCCGGGGGCTC
 CTCGGCGCGGTTGGCGGCCACGGCCTCCAGCAGCGCTCGGCGCTGTTGCTGCGGCTCCG
 CGCGCTGAGCTGGCCCTCGACGGGGCGCGGGGGGGCGGGCCCCGACGCGGCAGAGACGA
 CGAGGGCGAAGACGAGGAGGCGCCGCGCGCTCNGAGGGCGAGGCANGCGGGCAGGCGGC
 CGCGGCGAGGCTGGAGAAGTANTGCTGGCCGGCGAGTCGCTCCAACAGGCCGGGACGC
 GGGCGCGCAGGGGGCGTGGGGCCCGCTCTGGTGGGGGGTCTGGGCCCGCACATAGCT
 GCGAAGGGTGTATGTCGGCCGAGCCCCCTGACTCCANTGGATGGGGTGTGTGTGAAATG
 GCGGACCATGTCAAGCACAGACTGGAACCACAGATGCTGTACGTGACACTGGCCGTGGCC
 GTTCAGGGACAGGCGCAGGTGCTTGGCCTTGGCCTGGAGTTGAAGGTCAACACGTAATCC
 CCCAGCCGAGTCTCACTTTGGGGATCACGAAGAAGCCGGGGTTCCCGGGGCCCCCTGC
 CAGAACCAGTTGAGCACCTTGACCCCGACATGGTCCCCTGGAACCATTGGTAATCCGG
 ATACTTCCAGCTTGGGGTTCACCCTTGGGAATCCCGTCTTTTACCTTGTCCCTTGGG
 TAATGGCTGCAACTGCCGNTCGCCCTCCGGGATTCCAAGGCCCCCAAAAAGTTTTA
 CGGGTACCGGGATAAGGATCTCTTTCCCCATCTTCCCCGCTGGGGGGGCTGTCTCC
 GTCCCCGCCCCCTTCGGGGCCCCGCC

Restriction Sites:

Please inquire

ACCN:

NM_020979

Insert Size:

2200 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 3bp deletion.

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:	NM_020979.1 , NP_066189.1
RefSeq Size:	2110 bp
RefSeq ORF:	1899 bp
Locus ID:	10603
UniProt ID:	O14492
Cytogenetics:	7q22.1
Domains:	SH2, PH
Protein Families:	Druggable Genome
Protein Pathways:	Insulin signaling pathway, Neurotrophin signaling pathway
Gene Summary:	The protein encoded by this gene is expressed in B lymphocytes and contains pleckstrin homology and src homology 2 (SH2) domains. In Burkitt's lymphoma cell lines, it is tyrosine-phosphorylated in response to B cell receptor stimulation. Because it binds Shc independent of stimulation and Grb2 after stimulation, it appears to play a role in signal transduction from the receptor to the Shc/Grb2 pathway. [provided by RefSeq, Jun 2009]