

Product datasheet for **SC128156**

SH3BP2 (NM_003023) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH3BP2 (NM_003023) Human Untagged Clone
Tag:	Tag Free
Symbol:	SH3BP2
Synonyms:	3BP-2; 3BP2; CRBM; CRPM; RES4-23
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC128156 sequence for NM_003023 edited (data generated by NextGen Sequencing)

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ATGGCGGCTGAAGAGATGCATTGGCCTGTCCCTATGAAGGCCATTGGTGCCAGAACCTG
CTAACCATGCCTGGGGCGTGGCCAAGGCTGGCTACCTGCACAAGAAGGGCGGTACCCAG
CTGCAGCTGCTGAAATGGCCCTGCGCTTTGTCATCATCCACAACGCTGCGTCTACTAC
TTCAAGAGTAGCACCTCTGCCTCCCGCAGGGCGCCTTCTCCCTGAGTGGCTATAACCGG
GTGATGCGGGCGGCTGAGGAGACCACGTCCAACAACGTTTTCCCTTCAAGATCATCCAC
ATCAGCAAGAAGCACCGCACGTGGTTCTTCTCGGCCTCCTCCGAGGAGGAGCGCAAGAGC
TGGATGGCCTTGCTGCGCAGGGAGATTGGCCACTTCCACGAAAAGAAAGACCTGCCTTG
GACACCAGCGACTCCAGCTCGGACACAGACAGCTTCTACGGCGCAGTTGAGCGGCCTGTG
GATATCAGCCTTTCCCGTACCCACAGGACAATGAAGACTATGAGCAGCAGATGAGGAT
GACTCCTACCTGGAGCCTGACTCCCGGAGCCCGGAAGGCTTGAGGATGCCCTGATGCAC
CCACCGGCTTACCCACCACCCCAAGTGCCACGCCAGGAAGCCAGCCTTCTCTGACATG
CCCGGGCCCACTCCTTTACCTCCAAGGGCCCCGGTCCCCTACTGCCACCCCGCCCCCT
AAGCACGGCCTCCAGATGTTGGCTGGCTGCTGAGGACTCCAAGAGGGACCCACTGTGC
CCGAGGCGGGCTGAGCCTTGCCCAAGGTAACCTGCTACCCCCGAAGGATGAGCGATCCC
CCTCTGAGCACCATGCCACCGCACCCGGCCTCCGAAACCCCTTGCTTCCGGGAGAGT
GCCAGCCCAGCCCGAGCCCTGGACCCCTGGCCACGGGGCTGCTCCACTTCCAGTGTCT
GCCATCATGGCCACTGCCACCTCCAGAACTGTGACAACTCAAGTCTTCCACCTGTCC
CCCCGAGGACCACCCACATCTGAGCCCCACCTGTGCCAGCCAACAAGCCCAAGTTCTTG
AAGATAGCTGAAGAGGACCCCCAAGGGAGGCAGCCATGCCCGGACTCTTTGTGCCCCC
GTGGCTCCCGGCTCCTGCGCTGAAGTGCAGTGCCTGAGGCCATGGCGCGGCCGCA
GTCTGCCAGGCCAGAGAAGCCGACGCTCCCGCACCTCCAGCGATACCCCCCGATGGG
CAGAGTTTTAGGAGCTTCTCCTTTGAAAAGCCCGGCAACCCTCACAGGCTGACACTGGC
GGGACGACTCGGACGAGGACTATGAGAAGGTGCCACTGCCAACTCGGTCTTCGTAAC
ACCACGGAGTCTGCGAAGTGGAAAGTTGTTCAAGGCTACAAGCCCCGGGGAGAGCCC
CAGGATGGACTCTACTGCATCCGGAACCTCTACCAAGTCGGGGAAGTCTGTTGTG
TGGGACGAAACCTCTAACAAAGTGAAGAACTATCGCATTTTTGAGAAGGACTCTAAGTTC
TACCTGGAGGGCAGGTCCTGTTTGTGAGTGTGGCAGCATGGTGGAGCACTACCACACC
CACGTGCTGCCAGCCACAGAGCCTGCTGCTGCGGCACCCTACGGCTACACTGGCCT
AGGTGA
    
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Clone variation with respect to NM_003023.4
300 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003023 unedited

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GGGAGTGGATTGTATACGACTCATATAGGCGGCCGCGNATTAGATCTGGTACCGGTC
CGGAATCCCGGATATCGTCGACCCACGCGTCCGGCGGGCGGACGAGCTGCGCGGC
GGCGGGTCCCGCGGGCGGAGCGCTGCGCGGCTCATGGCGGCTGAAGAGATGCATTGGCCTGT
CCCTATGAAGGCCATTGGTGCCAGAACCTGCTAACCATGCCTGGGGGCGTGGCCAAGGC
TGGCTACCTGCACAAGAAGGGCGGTACCCAGCTGCAGCTGCTGAAATGGCCCTGCGCTT
TGTCATCATCCACAACGCTGCGTCTACTACTTCAAGAGTAGCACCTCTGCCTCCCGCA
GGGCGCTTCTCCCTGAGTGGCTATAACCGGGTATGCGGGCGGCTGAGGAGACCAGTC
CAACAACGTTTTCCCTTCAAGATCATCCACATCAGCAAGAAGCACCGCAGTGGTTCTT
CTCGGCCTCCTCCGAGGAGGAGCAGCAAGAGCTGGATGGCCTTGCTGCGCAGGGAGATTGG
CCACTTCCACGAAAAGAAAGACCTGCCCTTGACACCAGCGACTCCAGCTCGGACACAGA
CAGCTTCTACGGCGCAGTTGAGCGGCCTGTGGATATCAGCCTTTTCCCGTACCCACGGN
ACATGAAGACTATGAGCAGCAGATGAGGATGACTCCTACCTGGAGCCTGACTCCCCGGA
GCCCGAAGGGCTGAGATGCCCTGATGCACCCACCGGCTTACCCACCACCCCAAGTGCC
ACGCCAGGAAGCCAGCCTTCTCTGACATGGCCCGGGCCCACTCCTTTACCTC
    
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Restriction Sites:	Please inquire
ACCN:	NM_003023
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
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_003023.2 , NP_003014.2
RefSeq Size:	7300 bp
RefSeq ORF:	1686 bp
Locus ID:	6452
UniProt ID:	P78314
Cytogenetics:	4p16.3
Domains:	SH2, PH
Protein Families:	Druggable Genome
Protein Pathways:	Natural killer cell mediated cytotoxicity

Gene Summary:

The protein encoded by this gene has an N-terminal pleckstrin homology (PH) domain, an SH3-binding proline-rich region, and a C-terminal SH2 domain. The protein binds to the SH3 domains of several proteins including the ABL1 and SYK protein tyrosine kinases, and functions as a cytoplasmic adaptor protein to positively regulate transcriptional activity in T, natural killer (NK), and basophilic cells. Mutations in this gene result in cherubism. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

Transcript Variant: This variant (1) represents use of an alternative promoter and 5' UTR and uses a downstream translation start site, compared to variant 3. The resulting isoform (a) has a shorter N-terminus, compared to isoform b. Both variants 1 and 2 encode the same isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.