

Product datasheet for **SC318934**

SH3BP2 (NM_001122681) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH3BP2 (NM_001122681) Human Untagged Clone
Tag:	Tag Free
Symbol:	SH3BP2
Synonyms:	3BP-2; 3BP2; CRBM; CRPM; RES4-23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC318934 representing NM_001122681.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCGGCTGAAGAGATGCATTGGCTGTCCCTATGAAGGCCATTGGTGCCAGAACCTGCTAACCATG
CCTGGGGCGTGGCCAAGGCTGGCTACCTGCACAAGAAGGGCGGTACCCAGCTGCAGCTGTGAAATGG
CCCTGCCGCTTTGTCATCATCCACAAACGCTGCGTCTACTACTTCAAGAGTAGCACCTCTGCCTCCCG
CAGGGCGCCTTCTCCCTGAGTGGCTATAACCGGGTATGCGGGCGGCTGAGGAGACCACGTCACAAC
GTTTTCCCTTCAAGATCATCCATATCAGCAAGAAGCACCGCACGTGGTTCTTCTCGGCCTCCTCCGAG
GAGGAGCGCAAGAGCTGGATGGCCTTGCTGCGCAGGGAGATTGGCCACTCCACGAAAAGAAAGACCTG
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ATCAGCCTTTCCCGTACCCACGGACAATGAAGACTATGAGCACGACGATGAGGATGACTCCTACCTG
GAGCCTGACTCCCGGAGCCCGAAGGCTTGAGGATGCCCTGATGCACCCACGGCTTACCCACCACCC
CCAGTGCCACGCCAGGAAGCCAGCCTTCTCTGACATGCCCGGGCCACTCCTTACCTCCAAGGGC
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TCCAAGAGGGACCCACTGTGCCCGAGGGCGGCTGAGCCTTGCCCCAGGGTACCTGCTACCCCGAAGG
ATGAGCGATCCCCCTCTGAGCACCATGCCACCCGACCCGGCCTCCGAAACCCCTTGCTCCGGGAG
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CGATCACCCCGGATGGGCAGAGTTTCAGGAGCTTCTCCTTTGAAAAGCCCGGCAACCCTCACAGGCT
GACACTGGCGGGGACGACTCGGACGAGGACTATGAGAAGGTGCCACTGCCCAACTCGGTCTTCGTCAAC
ACCACGGAGTCTGCGAAGTGGAAAGGTTGTTCAAGGCTACAAGCCCCGGGGAGAGCCCCAGGATGGA
CTCTACTGCATCCGGAATCCTTACCAAGTCGGGGAAGGTCCTGGTTGTGTGGGACGAAACCTCTAAC
AAAGTGAGGAACTATCGATTTTGAAGGACTCTAAGTTCTACCTGGAGGGCGAGGTCCTGTTTGTG
AGTGTGGCAGCATGGTGGAGCACTACCACACCCAGTGTGCCAGCCACCAGAGCCTGCTGCTGCGG
CACCCCTACGGCTACACTGGCCTAGGTGA
ACGGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

Plasmid Map: □

ACCN: NM_001122681

Insert Size: 1686 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.

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_001122681.1](#)

RefSeq Size: 9068 bp

RefSeq ORF: 1686 bp

Locus ID: 6452

UniProt ID: [P78314](#)

Cytogenetics: 4p16.3

Protein Families: Druggable Genome

Protein Pathways: Natural killer cell mediated cytotoxicity

MW: 62.2 kDa

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 (2) 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. 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.