

Product datasheet for **RC227989**

SH3BP2 (NM_001145855) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH3BP2 (NM_001145855) Human Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide
Sequence:

>RC227989 ORF sequence, codon optimized.
Due to the complexity of NM_001145855, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAGCCTCGGCCAAGAACGCCCGCCCTCTAGAAGTAGAGGCAGAAGGGCGATGTGCTGGGTGA
GCACCATATCTTTATGGCTGCTGAGGAGATGCATTGGCCGTACCAATGAAAGCTATTGGTGCCAGAA
TCTGCTTACTATGCCCGGTGGAGTGGCCAAAGCCGGCTATCTGCACAAGAAGGGCGCCACCCAGCTGCAA
CTTCTTAAATGGCCACTTAGATTCGTGATTATCCACAAGCGGTGTGTACTACTTTAAAAGCAGCACCA
GGCCTCCCTCAGGGAGCCTTAGTCTGTCCGGCTATAACAGGGTGATGAGAGCCGCCAAGAAACAAC
ATCTAACAAATGTTTTCCCTTTAAAATCATCCATATTTCCAAGAAGCACCGGACCTGGTTCTTCAGCGCA
TCCAGCGAGGAAGAAAGAAAAGTTGGATGGCCCTGCTGCGGAGAGAAATAGGCCACTTTCACGAAAAA
AAGACCTGCCCTGGATACCACTGACTCATCTCCGATACCGATAGCTTCTACGGGGCTGTGCAACGCC
CGTTGATATCTCCCTCAGCCATACCCACAGACAACGAGGATTACGAGCACGACGACGAAGACGACAGC
TACCTGGAACCCGACAGCCCGAACCAGGGGAGACTCGAAGACGCTTTATGCACCCTCCCGCTTACCC
CACCCCGGTGCCAACACCCCGAAGCCCGCATTTAGCGATATGCCTCGGGCTCACAGTTTTACCTCAA
GGGCCCAGGCCCTTCTGCCACTCCACCGCAAAGCACGGCCTGCCAGACGTGGGCTCGCGGCAGAG
GACTCCAAACGAGATCCTCTGTGCCCTCGAAGGGCTGAGCCTTGCTTAGGGTTCCAGCAACACCCCGCC
GGATGTCCGACCCTCCCTTTCCACAATGCCCACTGCTCCAGGACTGAGAAAGCCCCATGCTTTAGGGA
GTCTGCTAGCCATCCCGGAGCCTTGGACTCCAGGACACGGCGGTGTAGCACATCAAGTGCCGCCATC
ATGGCAACTGCAACTTCAAGGAACTGTGACAAGCTGAAATCCTTCCACCTCTCACCCCGCGCCCTTA
CCAGTGAGCCCCACCAGTCCCGCGAATAAGCCTAAGTTCTTGAAAATTGCCGAAGAAGATCCCCACG
CGAGGCGGCTATGCCTGGGCTCTTCGTGCCACCCGTTGCCCCAGACCACCTGCACTGAACTGCCTGTG
CCCGAGGCAATGGCCAGACCCGAGTCTTGCTAGGCCGAGAAACCTCAACTTCCACACCTGCAGAGAA
GTCCTCCGACGCGCCAGAGCTTTAGAAGCTTCTCCTTCGAAAAACCGCGCAACCTAGCCAGGCTGACAC
AGGTGGCGACGATAGTGATGAGGATTACGAGAAGGTACCACTGCCTAACTCCGTCTTCGTGAATACCAG
GAGAGCTGTGAAGTGAACGCCTTTCAAGGCAACTTCAACCAGAGGCGAACCCCAAGATGGGCTTTATT
GTATAAGGAATTCATCAACTAAGTCCGGGAAAGTCTGCTGGTGGTTGGGACGAGACATCCAACAAGGTGAG
AAATTATAGGATCTTTGAGAAAGATTCAAAGTTTTATCTGGAAGGCGAAGTGCTTTTTGTGAGCGTTGGG
TCTATGGTGAACATTACCATACACATGTGCTCCCGTCTCATCAGTCCCTGCTTCTGAGGCACCCCTATG
GCTACACAGGTCCAAGG

ACGCGTACGCGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227989 representing NM_001145855
Red=Cloning site Green=Tags(s)

MASLGPRTPAPSRSRGRRAMCWVSTISFMAAEEHWPVPMKAIGAQNLLTMPGGVAKAGYLHKKGGTQLQ
 LLKWPLRFVIIHKRCVYFKSSTSASPQGAFLSGYNRMRAAETTSSNNVFPFKIIHISKKHRTWFFSA
 SSEEERKSWMALLRREIGHFHEKKDLPLDTSDDSSDTSFYGAVERPVDISLSPYPTDNEDYEHDEDDDS
 YLEPDSPEPGRLEDALMHPPAYPPPPVPTPRKPAFSDMPRAHSFTSKGPGPLPPPPPKHGLPDVGLAAE
 DSKRDPLCPRAEPCPRVPATPRRMSDPLSTMPAPGLRKPPCFRESASPSPEWTPGHGACSTSSAAI
 MATATSRNCDKLSFHLSPRGPPTSEPPVPANKPKFLKIAEEDPPREAAMPGLFVPPVAPRPPALKLPV
 PEAMARPAVLPRPEKQPLPHLQRSPPDQGSFRSFSFEKPRQPSQADTGGDDSEDEYKVLPLNSVFNNTT
 ESCEVERLFKATSPRGEPQDGLYCIRNSSTKSGKVLVWVDETSNKVRNYRIFEKDSKFYLEGEVLFVSVG
 SMVEHYHTHVLPESHQSLLLRHPYGYTGPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001145855

ORF Size: 1767 bp

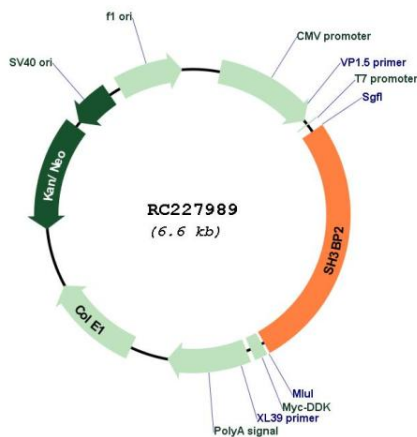
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001145855.1</u> , <u>NP_001139327.1</u>
RefSeq Size:	9139 bp
RefSeq ORF:	1770 bp
Locus ID:	6452
UniProt ID:	<u>P78314</u>
Cytogenetics:	4p16.3
Protein Families:	Druggable Genome
Protein Pathways:	Natural killer cell mediated cytotoxicity
MW:	65.3 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]

Product images:



Circular map for RC227989