

Product datasheet for **RC227997**

SH3BP2 (NM_001145856) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | SH3BP2 (NM_001145856) 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:

>RC227997 ORF sequence, **codon optimized**.
Due to the complexity of NM_001145856, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGGTT**CAGGAC**CTAGACCTAGGTCTTGGGGTAGGCGGGAGGCGGGT**GCAAGGGATGAAGCAGCAG**
CAGCAGGCGGCAGAGGACCCGGCCCATGCAGATGCTCCAGGGCCGAAGAGCATGGATTGCTCCAGGAAA
GCCTGCTATGCCTGCAGCTTGGACGCCTTTCATGGCCGCAGAAGAGATGCATTGGCCGGTCCCAATGAAG
GCAATTGGCGCCAGAACCTCCTCACGATGCCTGGCGGCGTGGCAAAGCAGGATATCTCCACAAGAAA
GGGACACACAACCTCAACTCCTGAAATGGCCACTCCGGTTTGTTATTATTCACAAGAGATGTGTCTATTA
CTTCAAGTCATCAACAAGCGCCTCCCCACAGGGAGCCTTTTCCCTGTGAGGGTACAAACCGGTTATGCGC
GCCCGGAGGAGACAACCAAGTAACAATGTGTTTCCCTTCAAGATTATCCACATCAGTAAGAAGCATAGAA
CATGGTCTTTTTAGCCAGCAGCGAAGAAGAACGCAAGAGTTGGATGGCCCTGCTCCGCCGAGAAATCGG
CCATTTCCACGAGAAGAAGGACCTGCCACTGGACACATCTGACTCAAGCTCCGACACAGACTCTTTCTAC
GGCGGGTTCGAACGCCCCGTAGATATCAGCCTGTCCCATACCCACCGATAATGAGGACTACGAGCATG
ACGACGAAGACGATTACACCTTGAACCCGACTCACCAGAACCCGGGCGACTGGAGGATGCCTTGATGCA
TCCACCTGCGTACCCACCTCCACCCGTGCCACTCCCCGAAAACCAGCTTCTCAGATATGCCTCGCGCC
CACAGCTTCACAAGTAAGGGACCAGGCCCTCTTGCCTCCTCCACCCCAAAGCATGGCCTTCCAGATG
TAGGCCTCGCTGCTGAGGACTCCAAGAGGGACCCACTGTGCCGAGGCGGGTGTAGCCTTCCCCAGGGT
ACCTGCTACCCCCGAAGGATGAGCGATCCCCCTCTGAGCACCATGCCACCCGACCCGGCTCCGGAAA
CCCCCTTGCTCCGGGAGAGTGCCAGCCCCAGCCGGAGCCCTGGACCCCTGGCCACGGGGCTGCTCCA
CTTCCAGTGTGCCATCATGGCCACTGCCACCTCCAGAACTGTGACAACTCAAGTCTTCCACCTGTC
CCCCGAGGACCACCCACATCTGAGCCCCACCTGTGCCAGCCAACAAGCCCAAGTTCTGAAGATAGCT
GAAGAGGACCCCCAAGGGAGGCAGCCATGCCCGGACTCTTGTGCCCCCGTGGCTCCCCGGCCTCCTG
CGCTGAAGCTGCCAGTGCCTGAGGCCATGGCGCGCCCGCAGTCTGCCAGGCCAGAGAAGCCGCAGCT
CCCGCACCTCCAGCGATACCCCCGATGGGCAGAGTTTCAGGAGCTTCTCCTTTGAAAAGCCCCGGCAA
CCCTCACAGGCTGACACTGGCGGGGACGACTCGGACGAGGACTATGAGAAGGTGCCACTGCCAACTCGG
TCTTCGTAACACCACGGAGTCTCGCAAGTGGAAAGGTTGTTCAAGGCTACAAGCCCCGGGGAGAGCC
CCAGGATGGACTCTACTGCATCCGGAATCCTCTACCAAGTCGGGGAAGGTCCTGGTTGTGTGGGACGAA
ACCTCTAACAAGTGAGGAATATCGCATTTTTGAGAAGGACTCTAAGTTCTACCTGGAGGGCGAGGTCC
TGTTTGTGAGTGTGGCAGCATGGTGGAGCACTACCACCCACGTGCTGCCAGCCACCAGAGCCTGCT
GCTGCGGCACCCCTACGGCTACACTGGCCTAGG

ACGCGTACGCGCGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227997 representing NM_001145856
Red=Cloning site Green=Tags(s)

MAGSGPRPRSWGRREAGARDEAAAAGGRGPGPCRCSSQGRRAWIAPGKPAWPAWTFMAAEEMHWPVPMK
 AIGAQNLLTMPGGVAKAGYLHKKGGTQLQLLKWPLRFVVIHKRCVYFKSSTASASPQAFSLSGYNRVMR
 AAETTSNNVFPFKIIHISKKHRTWFFSASSEERKSWMALLRREIGHFHEKKDLPLDTSDDSSDTSFY
 GAVERPVDISLSPYPTDNEDYEHDEDDSYLEPDSPEPGRLEDALMHPPAYPPPPVPTPRKPAFSDMPRA
 HSFTSKGPGPLLPPPPKHGLPDVGLAAEDSKRDPLCPRAEPCRPVATPRRMSDPLSTMPTAPGLRK
 PFCFRESASPSPEWTPGHGACSTSSAAIMATATSRNCDKLKSFHLSPRGPPTSEPPVPANKPKFLKIA
 EEDPPREAMPGLFVPPVAPRPPALKLPVPEAMARPAVLRPEKQQLPHLQRSPDPGQSFRSFSFEKPRQ
 PSQADTGGDDSEDEYKVLNPSVFNVTESCEVERLFKATSPRGEPQDGLYCIRNSSTKSGKVLVWDE
 TSNKVRNYRIFEKDSKFYLEGEVLFVSVGSMVEHYHHTVLP SHQSLLLRHPYGYTGPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001145856

ORF Size: 1854 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:

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_001145856.1](#), [NP_001139328.1](#)

RefSeq Size: 9158 bp

RefSeq ORF: 1857 bp

Locus ID: 6452

UniProt ID: [P78314](#)

Cytogenetics: 4p16.3

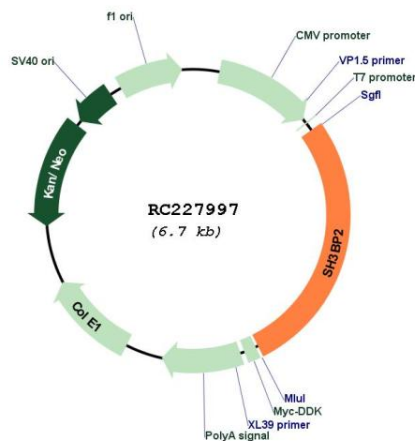
Protein Families: Druggable Genome

Protein Pathways: Natural killer cell mediated cytotoxicity

MW: 68.1 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 RC227997