

Product datasheet for **RG205759**

SH3BP2 (NM_003023) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH3BP2 (NM_003023) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SH3BP2
Synonyms:	3BP-2; 3BP2; CRBM; CRPM; RES4-23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205759 representing NM_003023
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGTGAAGAGATGCATTGGCCTGTCCCTATGAAGGCCATTGGTGCCAGAACCTGCTAACCATGC
 CTGGGGCGTGGCCAAGGCTGGCTACCTGCACAAGAAGGGCGGTACCCAGCTGCAGCTGCTGAAATGGCC
 CCTGCGCTTTGTATCATCCACAACGCTGCGTCTACTACTTCAAGAGTAGCACCTCTGCCTCCCGCGAG
 GGCGCCTTCTCCCTGAGTGGCTATAACCGGGTGTGCGGGCGGCTGAGGAGACCACGTCCAACAACGTTT
 TCCCTTCAAGATCATCCACATCAGCAAGAAGCACCGCACGTGGTTCTTCTCGGCCTCTCCGAGGAGGA
 GCGCAAGAGCTGGATGGCCTTGTGCGCAGGGAGATTGGCCACTCCACGAAAAGAAAGACTGCCCTTG
 GACACCAGCGACTCCAGCTCGGACACAGACAGCTTCTACGGCGCAGTTGAGCGGCCTGTGGATATCAGCC
 TTTCCCGTACCCACGGACAATGAAGACTATGAGCACGACGATGAGGATGACTCCTACCTGGAGCCTGA
 CTCCCGGAGCCCGGAAGGCTTGAGGATGCCCTGATGCACCCACCGGCTTACCCACCACCCCGAGTGCC
 ACGCCCAGGAAGCCAGCCTTCTCTGACATGCCCGGGCCACTCCTTTACCTCCAAGGGCCCGGTCCCC
 TACTGCCACCCCGCCCCCTAAGCACGGCTCCAGATGTTGGCCTGGCTGCTGAGGACTCCAAGAGGGA
 CCCACTGTGCCGAGGCGGGCTGAGCCTTGCCCGAGGGTACCTGCTACCCCGAAGGATGAGCGATCCC
 CCTCTGAGCACCATGCCACCGCACCGGCCTCCGAAACCCCTTGCTTCCGGGAGAGTGCCAGCCCCA
 GCCCGGAGCCCTGGACCCTGGCCACGGGGCTGCTCCACTTCCAGTGTGCCATCATGGCCACTGCCAC
 CTCCAGAACTGTGACAACTCAAGTCTTCCACTGTCCCGGAGGACCACCCACATCTGAGCCCCCA
 CCTGTGCCAGCCAACAAGCCCAAGTTCCTGAAGATAGCTGAAGAGGACCCCAAGGGAGGCAGCCATGC
 CCGGACTCTTTGTGCCCCCGTGGCTCCCGGCCTCCTGCGCTGAAGCTGCCAGTGCCTGAGGCCATGGC
 GCGGCCCGCAGTCTGCCAGGCCAGAGAAGCCGACGCTCCCGCACCTCCAGCGATCACCCCGCATGGG
 CAGAGTTTCAGGAGCTTCTCCTTTGAAAAGCCCGCAACCTCACAGGCTGACACTGGCGGGGACGACT
 CGGACGAGGACTATGAGAAGGTGCCACTGCCAACTCGGTCTTGTCAACACCACGGAGTCTGCGAAGT
 GGAAAGTTGTTCAAGGCTACAAGCCCCGGGAGAGCCCGAGGATGGACTCTACTGCATCCGAACTCC
 TCTACCAAGTCCGGGAAGGTCTGGTGTGTGGGACGAACTCTAACAAAGTGAAGAACTATCGCATTT
 TTGAGAAGGACTTAAGTCTACCTGGAGGGCGAGGTCTGTTTGTGAGTGTGGCAGCATGGTGGAGCA
 CTACCACACCCAGTGTGCCAGCCACAGAGCCTGCTGCTGCGGCACCCCTACGGCTACTGGGCT
 AGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205759 representing NM_003023
 Red=Cloning site Green=Tags(s)

MAAEMHWPVPMKAIGAQNLLTMPGGVAKAGYLHKKGGTQLQLLKWPLRFVIIHKRCVYFYKSSASPO
 GAFSLSGYNRMRAAEETTNNVFPFKIIHISKKHRTWFFSASSEERKSWMALLRREIGHFHEKKDLPL
 DTSDDSSDTSFYGAVERPVDISLSPYPTDNEDYEHDDEDDSYLEPDSPEPGRLEDALMHPAYPPPPVP
 TPRKPAFSDMPRAHSFTSKGPGPLPPPPPKHGLPDVGLAAEDSKRDPLCPRAEPCPRVPATPRRMSDP
 PLSTMPTAPGLRKPPCFRESASPSPEPWTPGHGACSTSSAAIMATATSRNCDKLSFHLSPRGPPTSEPP
 PVPANKPKFLKIAEEDPPREAAMPGLFVPPVAPRPPALKLPVPEAMARPAVLPRPEKQPLPHLQRSPPDG
 QSFRSFSFEKPRQPSQADTGGDDSDDEDYEVLPNSVFNNTTESCEVERLFKATSPRGEPQDGLYCI
 RNSSTKSGKVLVVWDETSNKVRNYRIFEKDSKFYLEGEVLFVSVGSMVEHYHTHVLPESHQSLLLRHPYGYTGP
 R

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003023

ORF Size: 1683 bp

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](#)

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

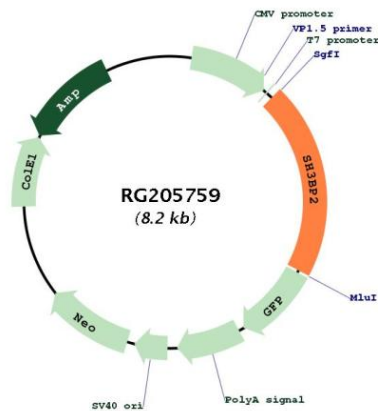
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_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]

Product images:



Circular map for RG205759