

Product datasheet for **RG227997**

SH3BP2 (NM_001145856) Human Tagged ORF Clone

Product data:

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

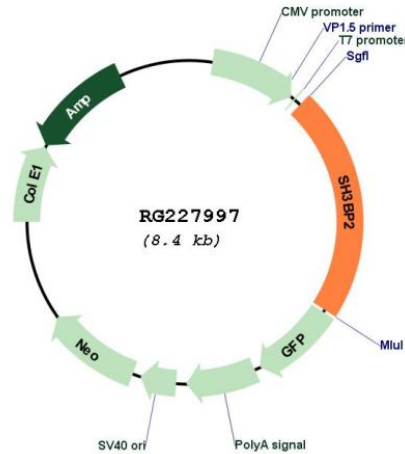
>RG227997 ORF sequence, **codon optimized**.
 Due to the complexity of NM_001145856, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGGTTCAGGACCTAGACCTAGGTCTTGGGGTAGGCGGGAGGCGGGTGAAGGGATGAAGCAGCAG
 CAGCAGGCGGCAGAGGACCCGGCCCATGCAGATGCTCCAGGGCCGAAGAGCATGGATTGCTCCAGGAAA
 GCCTGCTATGCCTGCAGCTTGGACGCCTTTCATGGCCGCGAAGAGATGCATTGGCCGGTCCCAATGAAG
 GCAATTGGCGCCAGAACCTCCTCACGATGCCTGGCGGCGTGGCAAAGCAGGATATCTCCACAAGAAAAG
 GGGGCACACAACCTCAACTCCTGAAATGGCCACTCCGGTTTGTTATTATTCACAAGAGATGTGTCTATTA
 TTCAAGTCATCAACAAGCGCCTCCCCACAGGGAGCCTTTTCCCTGTGAGGGTACAACCCGGTTATGCGC
 GCCCGGAGGAGACAACCAAGTAACAATGTGTTTCCCTTTCAAGATTATCCACATCAGTAAGAAGCATAGAA
 CATGGTCTTTTTAGCCAGCAGCGAAGAAGAACGCAAGAGTTGGATGGCCCTGCTCCGCCGAGAAATCGG
 CCATTTCCACGAGAAGAAGGACCTGCCACTGGACACATCTGACTCAAGCTCCGACACAGACTCTTTCTAC
 GGCGGGTTCGAACGCCCGTAGATATCAGCCTGTCCCATACCCACCGATAATGAGGACTACGAGCATG
 ACGACGAAGACGATTACACCTTGAACCCGACTCACCAGAACCCGGGCGACTGGAGGATGCCTTGATGCA
 TCCACCTGCGTACCCACCTCCACCCGTGCCACTCCCCGAAAACCAGCTTCTCAGATATGCCTCGCGCC
 CACAGCTTCACAAGTAAGGGACCAGGCCCTCTTGCTCCTCCACCCCAAAGCATGGCCTTCCAGATG
 TAGGCCTCGCTGCTGAGGACTCCAAGAGGGACCCACTGTGCCGAGGCGGGTGTAGCCTTCCCCAGGGT
 ACCTGCTACCCCCGAAGGATGAGCGATCCCCCTCTGAGCACCATGCCACCCGACCCGGCTCCGGAAA
 CCCCCTTGCTTCCGGGAGAGTGCCAGCCCCAGCCGGAGCCCTGGACCCCTGGCCACGGGGCTGCTCCA
 CTTCCAGTGTGCCATCATGGCCACTGCCACCTCCAGAACTGTGACAACTCAAGTCTTCCACCTGTC
 CCCCCGAGGACCACCCACATCTGAGCCCCACCTGTGCCAGCCAACAAGCCCAAGTTCTGAAGATAGCT
 GAAGAGGACCCCAAGGGAGGCAGCCATGCCCGGACTCTTTGTGCCCCCGTGGCTCCCCGGCCTCCTG
 CGCTGAAGCTGCCAGTGCCTGAGGCCATGGCGCGCCCGCAGTCTGCCAGGCCAGAGAAGCCGCAGCT
 CCCGCACCTCCAGCGATACCCCCGATGGGCAGAGTTTCAGGAGCTTCTCCTTTGAAAAGCCCCGGCAA
 CCCTCACAGGCTGACACTGGCGGGGACGACTCGGACGAGGACTATGAGAAGGTGCCACTGCCAACTCGG
 TCTTCGTAACACCACGGAGTCTCGCAAGTGGAAAGGTTGTTCAAGGCTACAAGCCCCGGGGAGAGCC
 CCAGGATGGACTCTACTGCATCCGGAACCTCTACCAAGTCGGGGAAGGTCCTGGTTGTGTGGGACGAA
 ACCTCTAACAAAGTGAGGAATATCGCATTTTTGAGAAGGACTCTAAGTTCTACCTGGAGGGCGAGGTCC
 TGTTTGTGAGTGTGGGCAGCATGGTGGAGCACTACCACCCACGTGCTGCCAGCCACCAGAGCCTGCT
 GCTGCGGCACCCCTACGGCTACACTGGCCTAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Plasmid Map:


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
Gene Summary:	<p>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]</p>