

Product datasheet for **SC321062**

G3BP (G3BP1) (NM_005754) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G3BP (G3BP1) (NM_005754) Human Untagged Clone
Tag:	Tag Free
Symbol:	G3BP
Synonyms:	G3BP; HDH-VIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_005754.2
 GTGTGCGGACGCGAGTTGCGTGAGGGGTTTGTGCTATCCTCGGTGCTGTGGTGCAGAGCTA
 GTTCCTCTCCAGCTCAGCCGCGTAGGTTTGGACATATTTGACTCTTTTCCCCCAGGTTG
 AATTGACCAAAGCAATGGTGTATGGAGAAGCCTAGTCCCCTGCTGGTGGGCGGGAATTTG
 TGAGACAGTATTACACTGTGAACCAGGCCACAGACATGCTGCATAGATTTTATGGAA
 AGAACTCTTATGTCCATGGGGATTGGATTCAAATGGAAAGCCAGCAGATGCAGTCT
 ACGGACAGAAAGAAATCCACAGGAAAGTGTGCACAAAATTCACCAACTGCCACACCA
 AGATTCGCCATGTTGATGCTCATGCCACGCTAAATGATGGTGTGGTAGTCCAGGTGATGG
 GGCTTCTCTTAACAACAACCAGGCTTTGAGGAGATTCATGCAAACGTTTGCCTTGCTC
 CTGAGGGGTCTGTTGCAAATAAATTCTATGTTACAATGATATCTTCAGATACCAAGATG
 AGGTCTTTGGTGGGTTTGTCACTGAGCCTCAGGAGGAGTCTGAAGAAGAAGTAGAGGAAC
 CTGAAGAAAGACAGCAAACACCTGAGGTGGTACCTGATGATTCTGGAACCTTCTATGATC
 AGGCAGTTGTGAGTAATGACATGGAAGAACATTTAGAGGAGCCTGTTGCTGAACCAGAGC
 CTGATCCTGAACCAGAACCAGAACAAGAACCTGTATCTGAAATCCAAGAGGAAAAGCCTG
 AGCCAGTATTAGAAGAACTGCCCTGAGGATGCTCAGAAGAGTCTTCTCCAGCACCTG
 CAGACATAGCTCAGACAGTACAGGAAGACTTGAGGACATTTTCTGGGCATCTGTGACCA
 GTAAGAATCTTCCACCCAGTGGAGCTGTTCCAGTTACTGGGATACCACCTCATGTTGTTA
 AAGTACCAGCTTACAGCCCCGTCAGAGTCTAAGCCTGAATCTCAGATTCACCCACAAA
 GACCTCAGCGGGATCAAAGAGTGCAGAGAACAACGAATAAATATTCCTCCCCAAAGGGGAC
 CCAGACCAATCCGTGAGGCTGGTGAAGGAGGACATTGAACCCCGAAGAATGGTGAAGC
 ACCCTGACAGTACCAACTCTTCATTGGCAACCTGCCTCATGAAGTGGACAAATCAGAGC
 AATAAGATTTCTTCAAAGTTATGGAAACGTGGTGGAGTTGCGCATTAAACAGTGGTGGGA
 AATTACCAATTTGGTTTTGTTGTTGATGATTCTGAGCCTGTTGAGAAAGTCCCTTA
 GCAACAGGCCCATCATGTTTCAAGGTTGAGGTCCGTCTGAATGTGAAAGAGAAGAAGACTC
 GAGCTGCCAGGGAAGGCGACCGAGATAATCGCCTTCGGGGACCTGGAGGCCCTCGAG
 GTGGGCTGGTGGTGAATGAGAGGCCCTCCCCGTGGAGGCATGGTGCAGAAACCAGGAT
 TTGGAGTGGGAAGGGGGCTTGCACCAGGCAGTGAATCTTCATGGATCTTCATGCAGCCA
 TACAAACCCTGGTTCCAACAGAATGGTGAATTTTCGACAGCCTTTGGTATCTTGGAGTAT
 GACCCAGTCTGTATAAACTGCTTAAGTTTGTATAATTTACTTTTTTTGTGTGTTAAT
 GGTGTGTGCTCCCTCTCCCTCTTCCCTTTCTGACCTTTAGTCTTTCACCTTCCAATTT
 TGTGGAATGATATTTAGGAATAACGGACTTTTAAAGAAGCAAAAAAAAAAAGACTGAATT
 TCCTTGCTTACTTTGCATATACAGACTGGATTTTTTTTTTTTTTTTACAGCCATTTCCCC
 AAAGGAATGTCTTGCATATTACTGACATTTGGTATGTTTCATTTCATTGGAATATTTCTTA
 TTTTCTACGTGTTTGAAGGCTGTAAGAAATACAGGATTTGATAATATTTTGAAGGCAG
 GAAAAACCAAAATGTTTCTTCTTTGAGAGTCACTACCTTCTGGTGTGGAGAAATTG
 CCATTGAAAAATTTGACAATTTTATTCTCACTGGTATGTTTAAAAACTGAATAAAAGGA
 ATAGAATTTTTTTTGTAAAGGATCACAAAACAATTCTAAAACCTAACTGTTTTTACCA
 TTGAAATTTAAATGTGATAATAGGTTTTAAATGTCTAGAATGCAACTGATAGGCTTTTC
 TTGAAGTGTAGTTTTTTTGAAGTAGTTTTTTCATGTTTAAATTTGATTTGTAAAAAAAC
 AAAAAAGCAAAAAAATCCCAAAACCAGATAACAACCAGAGCAAAACTGTTGTGCCTTCT
 ATTTATCTTTGATTTAGTCTTGGCAATGTTTAAAAAATACTAGATTTGTTTTATT
 AGGTTTCAAGTATGTGGGAATTATAGAATCCCTCTTTCATCACTTTGTGTATGTCTTTT
 GTTAAACATATTTGTTATGCCTTATTCTAAAATTGAGTCTCAAACCTGGAATGCCTTTGAAG
 ACAGATGCTTCTATAGAGGTTCTTTGACCTAAATAGTTCAGCATTGTATTTTTATTCTG
 GTATCTAATCAGATTCCTAATCATAGCCCGTAAGAAGGAATGTTACTTTAATATTGGACT
 TTGCTCATGTGCTCGTGTCCGATTTTTTTTTTTCTTAAAATCATAGCCATATGGTAAAT
 TTTCTATTTTGTATGGTTCTCTTTTATTGATGGGCATGCAGTGGGTGTTACTTGGAAT
 GGCCAATTTTTATTTAAATATTTCTGGAAGAAAATCCAAAAAATAAAAAAAAAAAAAA
 AAAAAA

Restriction Sites: Please inquire

ACCN:	NM_005754
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<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:	NM_005754.2 , NP_005745.1
RefSeq Size:	2855 bp
RefSeq ORF:	1401 bp
Locus ID:	10146
UniProt ID:	Q13283
Cytogenetics:	5q33.1
Domains:	RRM, NTF2
Protein Families:	Druggable Genome

Gene Summary:

This gene encodes one of the DNA-unwinding enzymes which prefers partially unwound 3'-tailed substrates and can also unwind partial RNA/DNA and RNA/RNA duplexes in an ATP-dependent fashion. This enzyme is a member of the heterogeneous nuclear RNA-binding proteins and is also an element of the Ras signal transduction pathway. It binds specifically to the Ras-GTPase-activating protein by associating with its SH3 domain. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 2. Variants 1 and 2 encode the same isoform.