

## Product datasheet for **SC116551**

### **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:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC116551 sequence for NM\_005754 edited (data generated by NextGen Sequencing)

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ATGGTGATGGAGAAGCCTAGTCCCCTGCTGGTCGGGCGGGAATTTGTGAGACAGTATTAC
ACACTGCTGAACCAGGCCCCAGACATGCTGCATAGATTTANNNNNNNNCTCTTCTTAT
GTCCATGGGGGATTGGATTCAAATGGAAGCCAGCAGATGCAGTCTACGGACAGAAAGAA
ATCCACAGGAAAGTGATGTCACAAAACCTCACCAACTGCCACACCAAGATTCCGCATGTT
GATGCTCATGCCACGCTAAATGATGGTGTGGTAGTCCAGGTGATGGGGCTTCTCTAAC
AACAAACCAGGCTTTGAGGAGATTCATGCAAACGTTTGTCTTGCTCCTGAGGGGTCTGTT
GCAAATAAATTCTATGTTCAACAATGATATCTTCAGATACCAAGATGAGGTCTTTGGTGGG
TTTGTCACTGAGCCTCAGGAGGAGTCTGAAGAAGAAGTAGAGGAACCTGAAGAAAGACAG
CAAACACCTGAGGTGGTACCTGATGATTCTGGAACCTTCTATGATCAGGCAGTTGTCAGT
AATGACATGGAAGAACATTTAGAGGAGCCTGTTGCTGAACCAGAGCCTGATCCTGAACCA
GAACCAGAACAAGAACCTGTATCTGAAATCCAAGAGGAAAAGCCTGAGCCAGTATTAGAA
GAAACTGCCCTGAGGATGCTCAGAAGAGTTCTTCTCCAGCACCTGCAGACATAGCTCAG
ACAGTACAGGAAGACTTGAGGACATTTTCTGGGCATCTGTGACCAGTAAGAATCTTCCA
CCCAGTGGAGCTGTTCCAGTTACTGGGATACCACCTCATGTTGTTAAAGTACCAGTTCA
CAGCCCGTCCAGAGTCTAAGCCTGAATCTCAGATTCCACCACAAAGACCTCAGCGGGAT
CAAAGAGTGCAGAAACAAGCAATAAATATTCTCCCAAAGGGGACCCAGACCAATCCGT
GAGGCTGGTGAGCAAGGTGACATTGAACCCGAAGAATGGTGAGACACCTGACAGTCCAC
CAACTCTTCATTGGCAACCTGCCTCATGAAGTGGCAAAATCAGAGCTTAAAGATTTCTTT
CAAAGTTATGGAACGTGGTGGAGTTGCGCATTAAACAGTGGTGGGAAATTACCAATTTT
GGTTTTGTGTTTGTGATTCTGAGCCTGTTAGAAAGTCTTAGCAACAGGCCCATC
ATGTTTCAAGAGTGAGGTCCGTGAATGTGCAAGAGAAGAAGACTCGAGCTGCCAGGGAA
GGCGACCGACGAGATAATCGCCTTCGGGGACCTGGAGGCCCTCGAGGTGGGCTGGGTGGT
GGAATGAGAGGCCCTCCCGTGGAGGCATGGTGCAGAAACCAGGATTTGGAGTGGGAAGG
GGGCTTGCACCACGGCAGTGA
    
```

Clone variation with respect to NM\_005754.2  
 102 t=>n;103 g=>n;104 g=>n;105 a=>n;106 a=>n;107 a=>n;108 g=>n;109 a=>n;110 a=>n

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005754 unedited

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GTGCAATTTTGTAAACGACTCACTATAGGGCGGCNCGCGAATTCGCACGAGGTGCGTG
AGGGGTTTGTACTATCCTCGGTGCTGTGGTGCAGAGCTAGTTCCTCTCCAGCTCAGCCGC
GTAGGTTTGGACATATTTGACTCTTTTCCCCCAGGTTGAATTGACCAAAGCAATGGTGA
TGGAGAAGCCTAGTCCCCTGCTGGTCCGGCGGGAATTTGTGAGACAGTATTACACTGC
TGAACCAGGCCCCAGACATGCTGCATAGATTTTATGAAAAGAACTCTTCTTATGTCCATG
GGGGATTGGATTCAAATGGAAGCCAGCAGATGCAGTCTACGGACAGAAAGAAATCCACA
GGAAAGTGATGTCACAAAACCTCACCAACTGCCACACCAAGATTCCCATGTTGATGCTC
ATGCCACGCTAAATGATGGTGTGGTAGTCCAGGTGATGGGGCTTCTCTTAACAACAACC
AGGCTTTGAGGAGATTGCAAAACGTTTGTCTTGCTCCTGAGGGGTCTGTTGCAATA
AATTCTATGTTCACAATGATATCTTCAGATACCAAGATGAGGTCTTTGGTGGGTTTGTCA
CTGAGCCTCAGGAGGAGTCTGAAGAAGAAGTAGAGGAACCTGAAGAAAGACAGCAAACAC
CTGAGGTGGTACCTGATGATTCTGGAACCTTCTATGATCANGCAGTTGTCAGTAATGACA
TGAAGAACAATTTAGAGGAGCCTGTTGCTGAACCAGAGCCTGATTCTTGACCAGAACCAG
ACCAGAACCTGTATCTGAAATCCCAGAGGAAAAGCCTGAGCCATATTAGAAGAAGTCCCC
TGATAGTCTCAGAAGAGTTCTTCTCCAGCACTGCCGACTAGCTCAGCAGTACACGAAGA
CTTGAGACATTTTTTTGGCATCTG
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005754 unedited CGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTCTCCAGAATATTTTAATAAAAATT GGCCATTTCCAAGTAACACCCACTGCATGCCCATCAATAAAGAGAACCATAACAAAATA GAAAATTTACCATATGGCTATGATTTTAAGAAAAAAAAAATGCGGACACGAGCACATGA GCAAAGTCCAATATTAAGTAACATTCCTTCTACGGGCTATGATTAGGAATCTGATTAG ATACCAGAATAAAAATACAAATGCTGAACTATTTAGGTCAAAGAACCTCTATAGAAGCAT CTGTCTTCAAAGGCATTCCAGTTTGAGACTCAATTTTAGAATAAGGCATAACAAATATGT TAACAAAAGACATACACAAAGTGATGAAAGAGGGATTCTATAATCCCCACATACTCTGA ACCTAATAAAAACAAATCTAGATTTTTTTTTTTAAACAATTGCCAAGACTGAAATCAAAGAT AAATAGAAGGCACAACAGTTTTGCTCTGTTGTTATCTGGGTTTTGGGAATTTTTTTGCT TTTTGTTTTTTACAAATACAAATTAACATGAAAAACTACTTCAAAAAACTAACAGT TCAAGAAAAGCCTATCAGTTGCATTCTAGACATTTAAACCTATTATCACAATTTAAATT TCAATGGTAAAAACAGTTAGGTTTTAGAATTGTTTTGTGATCCCTATCAAAAAAATC TATTCCTTTNATTCAGTTTTAAACATACCAGTGAGAATCAAATTTGTAATTTTTCAAT GGCATTCTCCACACAAAAGTAGTCATGACTCTCAAAGAAGAACATTTGGGGTTTTCTG CCTCAAAAATTATCAAACCTGTATTCTTACAGGCTTCAACACGTAATATAAAAATTTCT CATGGATGAACTACCAATGGCGTATATGCAAACCTCTGGGGGAATGCTGAAAAAAAAAA AACACTCGTTTGAAGAACAAGGATCACTTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005754
<b>Insert Size:</b>	3030 bp
<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_005754.2</a> , <a href="#">NP_005745.1</a>

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.