

## Product datasheet for **SC127200**

### G3BP (G3BP1) (NM\_198395) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	G3BP (G3BP1) (NM_198395) Human Untagged Clone
Tag:	Tag Free
Symbol:	G3BP
Synonyms:	G3BP; HDH-VIII
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_198395, the custom clone sequence may differ by one or more nucleotides

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ATGGTGATGGAGAAGCCTAGTCCCTGCTGGTCGGGCGGGAATTTGTGAGACAGTATTACACACTGCTGA
ACCAGGCCCCAGACATGCTGCATAGATTTTATGAAAAGAACTCTTCTTATGTCCATGGGGGATTGGATTC
AAATGGAAAGCCAGCAGATGCAGTCTACGGACAGAAAAGAAATCCACAGGAAAGTGATGTCACAAAACCTC
ACCAACTGCCACCAAGATTGCGCATGTTGATGCTCATGCCACGCTAAATGATGGTGTGGTAGTCCAGG
TGATGGGGCTTCTCTAACAACAACCAGGCTTTGAGGAGATTCATGCAAACGTTTGTCTTGCTCCTGA
GGGGTCTGTTGCAAATAAATTCTATGTTACAATGATATCTTCAGATACCAAGATGAGGTCTTTGGTGGG
TTTGTCACTGAGCCTCAGGAGGAGTCTGAAGAAGAAGTAGAGAACCTGAAGAAAGACAGCAAACACCTG
AGGTGGTACCTGATGATTCTGGAACCTTCTATGATCAGGCAGTTGTGAGTAATGACATGGAAGAACATTT
AGAGGAGCCTGTTGCTGAACCAGAGCCTGATCCTGAACCAAGAACCAAGAACCAAGAACCTGTATCTGAAATC
CAAGAGGAAAAGCCTGAGCCAGTATTAGAAGAACTGCCCTGAGGATGCTCAGAAGAGTTCTTCTCCAG
CACCTGCAGACATAGCTCAGACAGTACAGGAAGACTTGAGGACATTTTCTTGGGCATCTGTGACCAGTAA
GAATCTTCCACCCAGTGGAGCTGTTCCAGTTACTGGGATACCACCTCATGTTGTTAAAGTACCAGCTTCA
CAGCCCGTCCAGAGTCTAAGCCTGAATCTCAGATTCACCACAAAGACCTCAGCGGGATCAAAGAGTGC
GAGAACAACGAATAAATATTCTCCCAAAAGGGGACCCAGACCAATCCGTGAGGCTGGTGAAGTGA
CATTGAACCCGAAGAATGGTGAGACACCCTGACAGTACCAACTCTTCATTGGCAACCTGCCTCATGAA
GTGGACAAATCAGAGCTTAAAGATTTCTTCAAAGTTATGGAAAACGTGGTGGAGTTGCGCATTAAACAGTG
GTGGGAAATTACCAATTTTGGTTTTGTTGTTGATGATTCTGAGCCTGTTGAGAAAGTCCCTTAGCAA
CAGGCCCATCATGTTTCCAGAGGTGAGGTCCGCTGAAATGTCGAAAGAGAAGAAGACTCGAGCTGCCAGGGAA
GGCGACCGACGAGATAATCGCCTTCGGGGACCTGGAGGCCCTCGAGGTGGGCTGGTGGTGAATGAGAG
GCCCTCCCGTGGAGGCATGGTGCAGAAACCAGGATTTGGAGTGGGAAGGGGGCTTGCGCCACGGCAGTG
A

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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_198395 unedited</p> <pre>AATACGACTTTCTATAGGGCGGCCGCAATTCGGCACGAGGCGCAGTTGCGTGAGGGGTT TGTACTATCCTCGGTGCTGTGGTGCAGAGCTAGTTCTCTCCAGCTCAGCCGCGTAGGTT GAATTGACCAAAGCAATGGTGATGGAGAAGCCTAGTCCCCTGCTGGTCGGGCGGGAATTT GTGAGACAGTATTACACACTGCTGAACCCAGGCCAGACATGCTGCATAGATTTTATGGA AAGAACTTTCTTATGTCCATGGGGATTGGATTCAAATGGAAAGCCAGCAGATGCAGTC TACGGACAGAAAGAAATCCACAGGAAAGTGATGTCAAAAACTTACCAACTGCCACACC AAGATTGCCATGTTGATGCTCATGCCACGCTAAATGATGGTGTGGTAGTCCAGGTGATG GGGCTTCTCTCTAACAACAACCAGGCTTTGAGGAGATTCATGCAAACGTTTGTCTTGCT CCTGAGGGGTCTGTTGCAAATAAATTCTATGTTACAATGATATCTTCAGATACCAAGAT GAGGTCTTTGGTGGGTTTGTCACTGAGCCTCANGAGGAGTCTGAAGAAGAGTAGAGGAAC CTGAAGAAGACAGCANACACCTGAGGTGGTACCTGATGATTCTGGAACCTTCTATGATCA NGCAGTTGGTAGTAATGACATGGAAGAACATTTAGAGGAGCCTGTTGCTGAACCANAGCC TGATCCTGACCCAGACCAGAACAGAACCTGGTTCTGAATCCAAGAGGAAAGCCTGAGCCA TATTNAAAGAACTTGCCCTGAGATGCTCAAAAAAGTTCTTTTTTACACCTGCAGACTAGC TCANACAGTCAGGAGAACTGGAGACATTTCTTGGGCATTTGTGACAGTAAGATTTCCAC CAGGNAGCTGTTCAAGTTCGGGAAACACCTCATGTTGTAG</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_198395 unedited</p> <pre>TTAAGCTTGGACGCGGCCGCATCTAAGATCGGTTTTTTTTTTTTTTTTTTTTTTTTTAA TTTTCTTCAAAAAATTTAATAAAAAATGGCCATTTCCAAGTAACCCACTGCATGCC CATCAATAAAGAGAACCATAACAAAATAGAAAATTTACCATATGGCTATGATTTAAGA AAAAAAAAAATGCGGACACGAGCAGATGAGCAAAGTCCAATATTAAGTAACATTCCTTC TTACGGGCTATGATTAGGAATCTGATTAGATACCAGAATAAAAAACAAATGCTGAACTA TTTAGGTCAAAGAACCTCTATAGAAGCATCTGTCTTCAAAGGCATTCCAGTTTGAGACTC AATTTTAGAATAAGGCATAACAAATATGTTAACAAAAGACATACAAAAGTGATGAAAGA GGGATTCTATAATTTCCACATACTCTGAACCTAATAAAAACAAATCTAGATTTTTTTTTT AAACAATTGCCAAGACTGAAATCAAAGATAAATAGAAGGCACAACAGTTTTGCTCTGGTT GTTATCTGGGTTTTGGGAATTTTTTGTCTTTTTGTTTTTTACAAATACAAATTAACAT GAAAAAACTACTTCAAAAAAACTAACAGTTCAAGAAAAGCCTATCAGTTGCATTCTAGAC ATTTAAAACCTATTATCACAATTTAAATTTCAATGGTAAAAACAGTTAGGTTTTAGAAAT GTTTTGAGATCCTTTATCAAAAAAAATTTCTATTCTTTTTTATTAGTTTTTAAACATACC AGTGAGAATCAAATTTGCAATTTTCCAAATGGCAATTTCTCCACACCAGAAGGTAGTCA TGACTCTCAAAGAAGAAACAATTTGGTTTTTCTGCCTTCAAAAATTATCAAATCCTGT NATTTCTACAGGCTTTTCAACACGTAGAAATAAAAAATTTTCATGAATGAACTACCAATGT CGTATATGCAGAATC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_198395
<b>Insert Size:</b>	2880 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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).

**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\\_198395.1](#), [NP\\_938405.1](#)

**RefSeq Size:** 2824 bp

**RefSeq ORF:** 1401 bp

**Locus ID:** 10146

**UniProt ID:** [Q13283](#)

**Cytogenetics:** 5q33.1

**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 (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform.