

## Product datasheet for **RG210616**

### **G3BP (G3BP1) (NM\_198395) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	G3BP (G3BP1) (NM_198395) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	G3BP1
Synonyms:	G3BP; HDH-VIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG210616 representing NM\_198395  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGATGGAGAAGCCTAGTCCCTGCTGGTCGGCGGGAATTTGTGAGACAGTATTACACACTGCTGA  
 ACCAGGCCCCAGACATGCTGCATAGATTTTATGGAAGAAGCTCTTCTTATGTCCATGGGGATTGGATTC  
 AAATGGAAGCCAGCAGATGCAGTCTACGGACAGAAAGAAATCCACAGGAAAGTATGTCACAAAATTC  
 ACCAACTGCCACCAAGATTGCCATGTTGATGCTCATGCCACGCTAAATGATGGTGTGGTAGTCCAGG  
 TGATGGGGCTTCTCTAACAACAACCAGGCTTTGAGGAGATTCATGCAAACGTTTGTCTTGTCTCTGA  
 GGGGTCTGTTGCAAATAAATTCTATGTTACAATGATATCTTCAGATACCAAGATGAGGTCTTTGGTGGG  
 TTTGTCAGTACGCTCAGGAGGAGTCTGAAGAAGAAGTAGAGGAACCTGAAGAAAGACAGCAAACACCTG  
 AGGTGGTACCTGATGATTCTGGAACCTTCTATGATCAGGCAGTTGTCAGTAATGACATGGAAGAACATTT  
 AGAGGAGCCTGTTGCTGAACCAGAGCCTGATCCTGAACCAGAACCAGAACAAGAACCTGTATCTGAAATC  
 CAAGAGGAAAAGCCTGAGCCAGTATTAGAAGAAACTGCCCTGAGGATGCTCAGAAGAGTCTTCTCCAG  
 CACCTGCAGACATAGCTCAGACAGTACAGGAAGACTTGAGGACATTTTCTTGGGCATCTGTGACCAGTAA  
 GAATCTTCCACCCAGTGGAGCTGTTCCAGTTACTGGGATACCACCTCATGTTGTTAAAGTACCAGCTTCA  
 CAGCCCGTCCAGAGTCTAAGCCTGAATCTCAGATTCCACCACAAAGACCTCAGCGGGATCAAAGAGTGC  
 GAGAACAACGAATAAATATTCTCCCAAGGGGACCCAGACCAATCCGTGAGGCTGGTGAAGCAAGGTGA  
 CATTGAACCCGAAGAATGGTGAGACACCCTGACAGTACCAACTCTTATTGGCAACCTGCCTCATGAA  
 GTGGCAAATCAGAGCTTAAAGATTTCTTTCAAAGTTATGGAAACGTGGTGGAGTTGCCCATTAACAGTG  
 GTGGGAAATTACCAATTTTGGTTTTGTTGTTGGATGATTCTGAGCCTGTTTCAAGAACTCTTAGCAA  
 CAGGCCCATCATGTTTCAAGAGGTGAGGTCCGTCTGAATGTGGAAGAGAAGAAGACTCGAGCTGCCAGGGAA  
 GCGCACCAGCAGATAATCGCCTTCGGGGACCTGGAGGCCTCGAGGTGGGCTGGGTGGTGAATGAGAG  
 GCCCTCCCGTGGAGGCATGGTGCAGAAACCAGGATTTGGAGTGGGAAGGGGGCTTGCGCCACGGCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG210616 representing NM\_198395  
 Red=Cloning site Green=Tags(s)

MVMEKPSPLLVGREFVRQYYTLLNQAPDMLHRFYGKNSSYVHGGLDSNGKPADAVYGQKEIHRKVM SQNF  
 TNCHTKIRHVDHATLNDGVVVQVMGLLSNNNQALRRFMQTFVLAPEGSVANKFYVHNDIFRYQDEVFVG  
 FVTEPQEESEEEVEEPEERQQTPEVVPDSDGTFYDQAVVSNDMEEHLEEPVAEPEPDPEPEPEQEPVSEI  
 QEEKPEPVLEETAPEDAQKSSSPAPADIAQTVQEDLRTFSWASVT SKNLPPSGAVPVTGIPPHVVKVPAS  
 QRPESKPESQIPPRPQRDQVRVREQRINIPQGRPRIREAGEQGDIEPRRMVRHPD SHQLFIGNLPHE  
 VDKSELKDFQSYGNVVELRINSGGKLPNFGFVVLDDSEPVQKVL SNRPI MFRGEVRLNVEEKKTRAARE  
 GDRRDNRLRPGGPRGGLGGMRGPPRGGMVQKPGFGVGRGLAPRQ

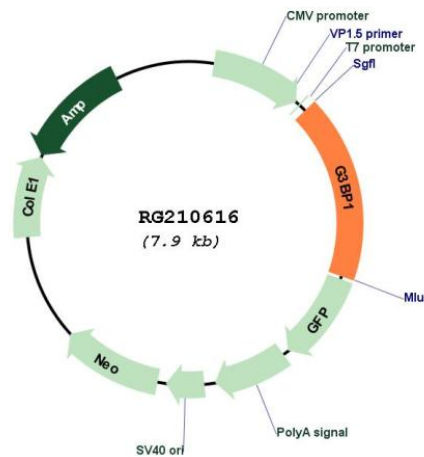
**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**Plasmid Map:**

**ACCN:** NM\_198395

**ORF Size:** 1398 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.

<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>	<u><a href="#">NM_198395.1</a></u> , <u><a href="#">NP_938405.1</a></u>
<b>RefSeq Size:</b>	2824 bp
<b>RefSeq ORF:</b>	1401 bp
<b>Locus ID:</b>	10146
<b>UniProt ID:</b>	<u><a href="#">Q13283</a></u>
<b>Cytogenetics:</b>	5q33.1
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]