

Product datasheet for **RG202692**

G3BP (G3BP1) (NM_005754) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G3BP (G3BP1) (NM_005754) 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:

>RG202692 representing NM_005754
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGATGGAGAAGCCTAGTCCCTGCTGGTCGGCGGGAATTTGTGAGACAGTATTACACACTGCTGA
 ACCAGGCCCCAGACATGCTGCATAGATTTTATGGAAGAAGCTCTTCTTATGTCCATGGGGATTGGATTC
 AAATGGAAGCCAGCAGATGCAGTCTACGGACAGAAAGAAATCCACAGGAAAGTATGTCACAAAATTC
 ACCAACTGCCACCAAGATTGCCATGTTGATGCTCATGCCACGCTAAATGATGGTGTGGTAGTCCAGG
 TGATGGGGCTTCTCTCTAACAACAACCAGGCTTTGAGGAGATTCATGCAAACGTTTGTCTTGTCTCTGA
 GGGGTCTGTTGCAATAAATTCTATGTTACAATGATATCTTCAGATACCAAGATGAGGTCTTGGTGGG
 TTTGTCAGTACGCTCAGGAGGAGTCTGAAGAAGAAGTAGAGGAACCTGAAGAAAGACAGCAAACACCTG
 AGGTGGTACCTGATGATTCTGGAACCTTCTATGATCAGGCAGTTGTCAGTAAATGACATGGAAGAACATTT
 AGAGGAGCCTGTTGCTGAACCAGAGCCTGATCCTGAACCAGAACCAGAACAAGAACCTGTATCTGAAATC
 CAAGAGGAAAAGCCTGAGCCAGTATTAGAAGAACTGCCCTGAGGATGCTCAGAAGAGTCTTCTCCAG
 CACCTGCAGACATAGCTCAGACAGTACAGGAAGACTTGAGGACATTTTCTTGGGCATCTGTGACCAGTAA
 GAATCTTCCACCCAGTGGAGCTGTTCCAGTTACTGGGATACCACCTCATGTTGTTAAAGTACCAGCTTCA
 CAGCCCGTCCAGAGTCTAAGCCTGAATCTCAGATTCCACCACAAAGACCTCAGCGGGATCAAAAGAGTGC
 GAGAACAACGAATAAATATTCCTCCCAAGGGGACCCAGACCAATCCGTGAGGCTGGTGAAGCAAGGTGA
 CATTGAACCCGAAGAATGGTGAGACACCCTGACAGTACCAACTCTTATTGGCAACCTGCCTCATGAA
 GTGGACAAATCAGAGCTTAAAGATTTCTTTCAAAGTTATGGAACGTGGTGGAGTTGCCCATTAACAGTG
 GTGGGAAATTACCAATTTTGGTTTTGTTGTTGATGATTCTGAGCCTGTTTCAAGAACTCTTAGCAA
 CAGGCCCATCATGTTTCAAGAGTGGTCCGTCTGAATGTGGAAGAGAAGAAGACTCGAGCTGCCAGGGAA
 GCGACCGACGAGATAATCGCCTTCGGGACCTGGAGGCCTCGAGGTGGGCTGGTGGTGAATGAGAG
 GCCCTCCCGTGGAGGCATGGTGCAGAAACCAGGATTTGGAGTGGGAAGGGGGCTTGCGCCACGGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG202692 representing NM_005754
 Red=Cloning site Green=Tags(s)

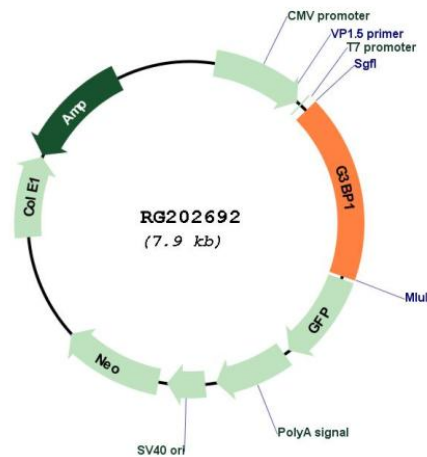
MVMEKPSPLLVGREFVRQYYTLLNQAPDMLHRFYGKNSSYVHGGLDSNGKPADAVYGQKEIHRKVM SQNF
 TNCHTKIRHVDHATLNDGVVVQVMGLLSNNQALRRFMQTFVLAPEGSVANKFYVHNDIFRYQDEVFVG
 FVTEPQEESEEEVEEPEERQQTPEVVPDSDGTFYDQAVVSNMEEHLEEPVAEPEPDPEPEPEQEPVSEI
 QEEKPEPVLEETAPEDAQKSSSPAPADIAQTVQEDLRTFSWASVT SKNLPPSGAVPVTGIPPHVVKVPAS
 QRPESKPESQIPPRPQRDQVRVREQRINIPQGRPIREAGEQGDIEPRRMVRHPD SHQLFIGNLPHE
 VDKSELKDFQSYGNVVELRINSGGKLPNFGFVVFDDSEPVQKVL SNRPI MFRGEVRLNVEEKTRAARE
 GDRRDNRLRPGGPRGGLGGMRGPPRGGMVQKPGFVGRGLAPRQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_005754

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.

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_005754.3
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]