

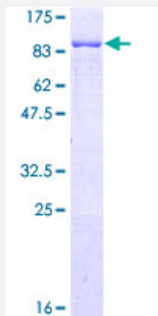
## Full-Length

# G3BP (Human) Recombinant Protein (P01)

Catalog # H00010146-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human G3BP full-length ORF ( NP\_005745.1, 1 a.a. - 466 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MVMEKPSPLLVGREFVRQYYTLLNQAPDMLHRFYGKNSSVHGGGLDSNGKPADAVYGQKEIHRK  
VMSQNFTNCHTKIRHVDAAHATLNDGVVVQVMGLLSNNNQALRRFMQTFVLAPEGSVANKFYVHN  
DIFRYQDEVFGGFVTEPQEESEEEVEEPEERQQTPEVVPDDSGTFYDQAVVSNDMEEHLEEV  
AEPEPDPEPEPEQEPVSEIQEEKPEPVLEETAPEDAQKSSSPAPADIAQTVQEDLRTFSWASVT  
SKNLPPSGAVPVTGIPPHVVKVPASQPRPESKPESQIPPQRPQRDQRVREQRINIPPQRGPRPIR  
EAGEQQDIEPRRMVRHPDSHQLFIGNLPHEVDKSELKDFQSYGNVVELRINSGGKLPNFGFVVF  
DDSEPVQKVLNRPIMFRGEVRLNVEEKKTRAAREGDRRDNRLRGPGGPRGGLGGMRGPPR  
GGMVQKPGFGVGRGLAPRQ

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

78.6

### Interspecies Antigen Sequence

Mouse (93); Rat (93)

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — G3BP1

Entrez GeneID [10146](#)

GeneBank Accession# [NM\\_005754.2](#)

Protein Accession# [NP\\_005745.1](#)

Gene Name G3BP1

Gene Alias G3BP, HDH-VIII, MGC111040

Gene Description GTPase activating protein (SH3 domain) binding protein 1

Omim ID [608431](#)

Gene Ontology [Hyperlink](#)

**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]

**Other Designations** GAP binding protein|OTTHUMP00000160618|Ras-GTPase-activating protein SH3-domain-binding protein|RasGAP-associated endoribonuclease G3BP

## Publication Reference

- [C9orf72 Dipeptide Repeats Impair the Assembly, Dynamics, and Function of Membrane-Less Organelles.](#)

Kyung-Ha Lee, Peipei Zhang, Hong Joo Kim, Diana M Mitrea, Mohona Sarkar, Brian D Freibaum, Jaclyn Cika, Maura Coughlin, James Messing, Amandine Molliex, Brian A Maxwell, Nam Chul Kim, Jamshid Temirov, Jennifer Moore, Regina-Maria Kolaitis, Timothy I Shaw, Bing Bai, Junmin Peng, Richard W Kriwacki, J Paul Taylor.

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Application: Pull-Down, N/A, Recombinant proteins