

Product datasheet for **RG203977**

G3BP2 (NM_203504) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | G3BP2 (NM_203504) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | G3BP2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG203977 representing NM_203504 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTATGGAGAAGCCAGTCCGCTGCTTGTAGGGCGGGAGTTGTGAGGCAATATTACTTTGCTGA
ATAAAGCTCCGGAATATTACACAGGTTTTATGGCAGGAATCTTCCTATGTTTCATGGTGGAGTAGATGC
TAGTGGAAAGCCCGAGGAAGCTGTTTATGGCCAAAATGATATACACCACAAAGTATTATCTCTGAACCTC
AGTGAATGTCATACTAAAATTCGTATGTGGATGCTCATGCAACCTTGAGTGATGGAGTAGTTGTCCAGG
TCATGGGTTTGTGTCTAACAGTGGACAACAGAAAGAAAGTTTATGCAAACCTTTGTTCTGCTCCTGA
AGGATCTGTTCCAAATAAATTTTATGTTACAATGATATGTTTCGTTATGAAGATGAAGTGTGGTGAT
TCTGAGCCTGAACCTTGATGAAGAATCAGAAGATGAAGTAGAAGAGGAACAAGAAGAAAGACAACCATCTC
CTGAACCTGTGCAAGAAAATGCTAACAGTGGTACTATGAAGCTCACCTGTGACTAATGGCATAGAGGA
GCCTTTGGAAGAATCCTCTCATGAACCTGAACCTGAGCCAGAATCTGAAACAAAGACTGAAGAGCTGAAA
CCACAAGTGGAGGAGAAGAACTTAGAAGAAGTAGAGGAGAAATCTACTCTCCTCCGGCAGAACCTG
TTTCTCTGCCACAAGAACCACCAAGCCAAGAGTCAAGCTAAACCAGAAGTTCAATCTCAGCCACCTCG
TGTGCGTGAACAACGACCTAGAGAACGACCTGGTTTTCTCCTAGAGGACCAAGACCAGGCAGAGGAGAT
ATGGAACAGAATGACTCTGACAACCGTAGAATAATTCGCTATCCAGATAGTCATCAACTTTTGTGGTA
ACTTGCCACATGATATTGATGAAAATGAGCTAAAGGAATCTTCATGAGTTTTGGAACGTTGTGGAAC
TCGCATCAATACCAAGGGTGTGGGGGAAAGCTTCCAAATTTGTTTTGTGGTTTTGTGACTCTGAA
CCAGTTGAGAGAACTTAATTGCAAAACCGATTATGTTTCGAGGGGAAGTACGTTTAAATGTGGAAGAGA
AAAAACAAGAGCTGCAAGAGAGCGAGAAACAGAGGTGGTGGTATGATCGCAGGGATATTAGCGCAA
TGATCGAGGTCCCGTGGTCCACGTGGAATGTGGGTGGTGAATGATGCGTGATCGTGATGGAAGAGGA
CCTCCTCAAGGGTGGCATGGCACAGAACTTGGCTCTGGAAGAGGAACCGGGCAAATGGAGGGCCGCT
TCACAGGACAGCGTCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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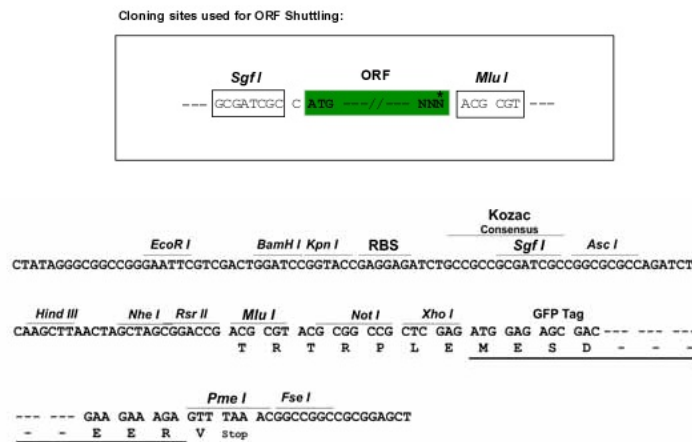
Protein Sequence: >RG203977 representing NM_203504
 Red=Cloning site Green=Tags(s)

MVMEKPSPLLVGREFVRQYYTLLNKAPEYLHRFYGRNSSYVHGGVDASGKPQEAVYGQNDIHHKVLNLNF
 SECHTKIRHVDAHATLSDGVVVQVMGLLSNSGQPERKFMQTFVLAPEGSVPNKFVYHNDMFRYEDVFVGD
 SEPELDEESEDEVEEEQEERQPSPEPVQENANSGYEAEHPVTNGIEEPLSESSHEPEPESETEKTEELK
 PQVEEKNLEELKSTTPPPAEPVSLPQEPKPRVEAKPEVQSQPPRVREQRPRERPGFPPRGRPRGRGD
 MEQNDSNRRRIIRYPDSHLFVGNLPHDIDENELKEFFMSFGNVVELRINTKGVGGKLPNFGFVVFDDSE
 PVQRILIAKPIFRGEVRLNVEEKTRAARERETRGGGDDRRDIRRNDRGPGGPRGIVGGMMRDRDRGRG
 PPRRGMMAQKLGSGRGTGQMEGRFTGQRR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_203504

ORF Size: 1347 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:

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_203504.2](#), [NP_987100.1](#)

RefSeq Size: 4254 bp

RefSeq ORF: 1350 bp

Locus ID: 9908

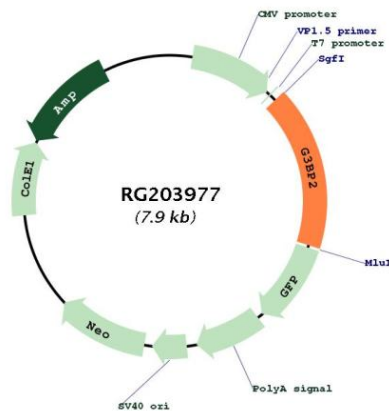
UniProt ID: [Q9UN86](#)

Cytogenetics: 4q21.1

Protein Families: Druggable Genome

Gene Summary: Scaffold protein that plays an essential role in cytoplasmic stress granule formation which acts as a platform for antiviral signaling.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG203977