

## Product datasheet for **MC215981**

### **G3bp2 (NM\_001080796) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	G3bp2 (NM_001080796) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	G3bp2
Synonyms:	AA409541; E430034L04Rik; G3BP; mKIAA0660
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC215981 representing NM\_001080796  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTTATGGAGAAGCCAGTCCGCTGCTTGTGGGGCGGAGTTGTGAGGCAATATTATACTTTGCTGA  
 ATAAAGCTCCCGAGTATTTGCACAGTTCTATGGCAGGAATTCCTCTATGTTTCATGGTGGAGTGGATGC  
 CAGTGGAAAGCCCGAGGAAGCAGTTTATGGCCAAAATGATATACACCACAAAGTGTATCTCTGAACTTC  
 AGTGAATGTCATACAAAATTCGTATGTGGATGCTCATGCAACCTTGAGTGATGGTGTAGTGGTACAGG  
 TCATGGGCTTGTGTCTAACAGTGGACAGCCTGAGAGGAAGTTTATGCAAACCTTTGTTCTGGCTCCAGA  
 AGGATCTGTTCCAAATAAATTTTATGTTACAATGATATGTTTCGTTATGAAGATGAAGTGTGGTGGTAT  
 TCTGAACCAGAATTGATGAAGAGTCAGAAGATGAAGTGAAGAGGAGCAAGAAGACAGGCAGCCGCTCTC  
 CTGAACCTGTGCAAGAGAATGCTAACAGCGCTTACTATGACGCACACCCCGTGACTAATGGCATAGAGGA  
 GCCTTTAGAAGAATCCTCTCATGAACCTGAGCCTGAGCCAGAATCTGAAACAAAGACTGAAGAGCTGAAA  
 CCACAAGTGGAGGAGAAACACTTGAAGAGCTGGAGGAGAAGTCGGCCACTCCTCTCTCTGCTGAGCCTG  
 CTTCTCTGCCTCAGGAACCGCCAAAGCCGAGGGTTGATGCTAAGCCAGAAGTTCAGTCTCAGCCACCGCG  
 TGTACGGGAACAGCGACCTCGAGAGCGGCTGGTTTCCCTCCTCGAGGACCAAGGCCAGGCAGAGGAGAT  
 ATGGAACAGAATGACTCTGACAACCGGAGAATAATTCGCTATCCGGACAGTCATCAGCTTTTCGTTGGTA  
 ACTTGCCTCATGATATTGATGAAAATGAACTGAAAGAATCTTTATGAGTTTTGGAACGTTGTGGAAGT  
 TCGCATCAATACCAAGGGTGTGGGGGAAAACCTCCAAATTTGGTTTTGTGGTTTTGATGACTCTGAA  
 CCAGTTCAGAGAATCTTAATTGCAAAACCAATTATGTTTCGAGGAGAAGTACGTTAAATGTGGAAGAGA  
 AAAAAACAAGAGCTGCCAGAGAGCGAGAAACAGAGGTGGTGGCGATGACCGCAGGGATATCAGGCGCAA  
 TGATCGGGTCTGGTGGTCCACGTGGAATTGTGGGTGGTGAATGATCGGTGATCGTGACGGAAGAGGG  
 CCACCTCCACGAGGTGGCATGACACAGAACTTGTTCTGGAAGAGGAACCGGGCAAATGGAAGGTCGCT  
 TCACAGGACAGCGTCGT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001080796

**Insert Size:** 1350 bp

**OTI Disclaimer:** 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).

**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\\_001080796.2](#), [NP\\_001074265.1](#)

RefSeq Size: 4274 bp

RefSeq ORF: 1350 bp

Locus ID: 23881

Cytogenetics: 5 E2

**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]  
Transcript Variant: This variant (4) differs in the 5' UTR and lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a. Variants 3, 4, and 8 all encode the same isoform (b).