

Product datasheet for **MR230138**

G3bp2 (NM_001080794) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G3bp2 (NM_001080794) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	G3bp2
Synonyms:	AA409541; E430034L04Rik; G3BP; mKIAA0660
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230138 representing NM_001080794
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTTATGGAGAAGCCAGTCCGCTGCTTGTGGGGCGGAGTTGTGAGGCAATATTATACTTTGCTGA
 ATAAAGCTCCCGAGTATTGACACAGTTCTATGGCAGGAATTCCTCTATGTTTCATGGTGGAGTGGATGC
 CAGTGGAAAGCCCGAGGAAGCAGTTTATGGCCAAAATGATATACACCACAAAGTGTATCTCTGAACTTC
 AGTGAATGTCATACAAAATTCGTATGTGGATGCTCATGCAACCTTGAGTGATGGTGTAGTGGTACAGG
 TCATGGGCTTGTGTCTAACAGTGGACAGCCTGAGAGGAAGTTTATGCAAACCTTTGTTCTGGCTCCAGA
 AGGATCTGTTCCAAATAAATTTTATGTTACAATGATATGTTTCGTTATGAAGATGAAGTGTGGTGTGAT
 TCTGAACCAGAATTGATGAAGAGTCAGAAGATGAAGTGAAGAGGAGCAAGAAGACAGGCAGCCGCTCTC
 CTGAACCTGTGCAAGAGAATGCTAACAGCGCTTACTATGACGCACACCCCGTGACTAATGGCATAGAGGA
 GCCTTTAGAAGAATCCTCTCATGAACCTGAGCCTGAGCCAGAATCTGAAACAAAGACTGAAGAGCTGAAA
 CCACAAGTGGAGGAGAAACACTTGAAGAGCTGGAGGAGAAGTCGGCCACTCCTCTCTCTGCTGAGCCTG
 CTTCTCTGCCTCAGGAACCGCCAAGGCTTTCTCTGGGCTTCAGTGACCAGTAAAAACCTGCCTCCTAG
 TGGTACTGTTTCTTCTCTGGAATTCACCCCATGTTAAAGCACCAGTCTCACAGCCGAGGGTTGATGCT
 AAGCCAGAAGTTCAGTCTCAGCCACCGCGTGTACGGGAACAGCGACCTCGAGAGCGGCCTGGTTCCCTC
 CTCGAGGACCAAGGCCAGGCAGAGGAGATGGAACAGAATGACTCTGACAACCGGAGAATAATTCGCTA
 TCCGGACAGTCATCAGCTTTTCGTTGGTAACTTGCCATGATATTGATGAAAATGAACTGAAAGAATTC
 TTTATGAGTTTTGGAAACGTTGTGGAACCTCGCATCAATACCAAGGTTGTTGGGGAAAACCTTCAAATT
 TTGGTTTTGTGGTTTTTGTGACTCTGAACAGTTTCAGAGAATCTTAATGCAAAAACCAATTATGTTTCG
 AGGAGAAGTACGTTTAAATGTGGAAGAGAAAAACAAGAGCTGCCAGAGAGCGAGAAACAGAGGTGGT
 GCGGATGACCGCAGGGATATCAGGCGCAATGATCGGGGCTCCTGGTGGTCCACGTGGAATTGTGGGTGGT
 GAATGATGCGTGATCGTGACGGAAGAGGCCACCTCCACGAGGTGGCATGACACAGAAACTTGGTCTGG
 AAGAGGAACCGGCAATGGAAGTCGCTTCACAGGACAGCGTCGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230138 representing NM_001080794
 Red=Cloning site Green=Tags(s)

MVMEKPSPLLVGREFVRQYYTLLNKAPEYLHRFYGRNSSYVHGGVDASGKPQEAVYVQNDIHHKVLNLNF
 SECHTKIRHVDHATLSDGVVVQVMGLLSNSGQPERKFMQTFVLAPEGSVPNKFYVHNDMFRYEDEVFGD
 SEPELDEESEDEVEEEQEDRQPSPEPVQENANSAYYDAHPVTNGIEEPLIESSHEPEPEPESETKTEELK
 PQVEEKHLEELKESATPPPAEPASLPQEPKAFSWASVTSKNLPPSGTVSSSIPPHVKAPVSQPRVDA
 KPEVQSQPPRVREQRPRERPGFPPRGPRGRGDMEQNDSNRRIIRYPDSHQLFVGNLPHDIDENELKEF
 FMSFGNVVELRINTKGVGKLPNFGFVVFDDSEPVQRILIAKPIIMFRGEVRLNVEEKKTRAARERETRGG
 GDDRRDIRRNDRGPGPRGIVGGMMRRDRGRPPPRGGMTQKLGSGRGTQMEGRFTGQRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001080794

ORF Size: 1446 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_001080794.2](#), [NP_001074263.1](#)

RefSeq Size: 4331 bp

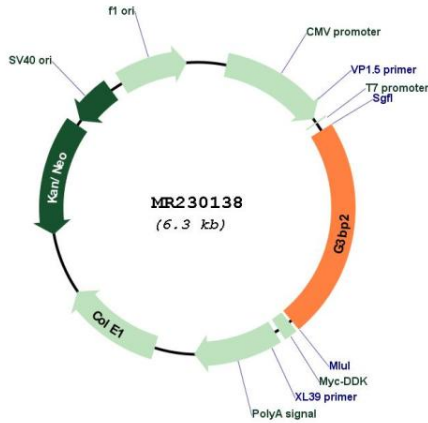
RefSeq ORF: 1449 bp

Locus ID: 23881

UniProt ID: [P97379](#)

Cytogenetics: 5 E2
MW: 54.1 kDa
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 MR230138