

Product datasheet for **MC219386**

Gbp2 (NM_010260) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gbp2 (NM_010260) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gbp2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219386 representing NM_010260
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTCAGAGATCCACATGTCCGAACCCATGTGCCTCATTGAGAACACTGAGGCTCAACTAGTGATCA
 ACCAGGAGGCTCTGAGGATCCTGTCTGCCATTACACAGCCTGTGGTGGTGGCAATCGTGGGCCCTCTA
 CCGCACAGGCAAATCCTACCTGATGAACAAGCTAGCTGGGAAGAGGACAGGCTTTTCCCTGGGCTCCACT
 GTGCAGTCTCACACCAAGGGCATCTGGATGTGGTGTGTGCCTCACCCCAAGAAGGCAGGGCAAACCTGG
 TTCTGCTTGACTGAGGGCCTTGAAGATGTTGAGAAGGGTGACAACCAGAATGACTGCTGGATCTTTGC
 TTTGGCAGTCTCCTCAGCAGCACCTTCATCTACAACAGCATAGGAACCAACACCAGCAGGCCATGGAC
 CAGCTGCACTATGTGACGGAGCTAACTGATCTTATCAAGTCAAAGTCATCACCTGACCAGAGTGGGGTAG
 ACGATTCCGCTAACTTTGTGGGCTTCTTCCAACCTTTGTGTGGACTCTGAGAGATTTCTCCCTCGAGCT
 GGAGGTTAACGGAAAACCCGTCACTTCTGATGAGTACCTGGAACATTCCCTGACCCTGAAAAAGGAGCT
 GATAAGAAAACAAAAGCTTTAATGAGCCGCGACTGTGCATCAGGAAATCTTTCCAAAGAGGAAGTGT
 TCATCTTTGACAGGCCTGCTCAGAGGAAGCAACTAGCAAACCTGGAGACTCTGCGGGAGGAGGAGCTGTG
 TGGTGAATTTGTAGAACAAGTTGCAGAATTCACCTCATAACATCTTGAGCTACTCTTCTGTCAAGACTCTG
 TGTGGTGGCATCATAGTCAATGGGCCACGTCTAAAGAGCCTGGTGCAGACCTATGTTGGTGGCCATCAGCA
 ATGGGTCTCTCCCTGCATGGAGAGTGTGTGCTGACTTTGGCCAGATAGAGAACTCAGCAGCAGTGCA
 AAAGGCCATCACCACTATGAAGAACAGATGAATCAGAAGATTCAGATGCCACAGAAAACCTCCAGGAG
 CTCCTGGATCTGCACAGGCCAATTGAGAGTGAGGCCATTGAGGTCTTCTGAAGAATTTCTCAAGGATG
 TAGACCAAAAAGTTCCAGACAGAATTAGGGAACCTGCTGGTAGCCAAGCGAGATGCCTTTATCAAGAAGAA
 CATGGATGTCTCATCAGCTCGTTGCTCAGACTTGCTGGAGGATATTTTTGGACCCCTGGAAGAAGAAGTA
 AAATTAGGGACATTTTCTAAACCAGGAGGTTACTACCTCTTCTTCAAATGAGACAAGAGCTAGAGAAAA
 AGTATAACCAGGCTCCTGGGAAGGGGCTCCAGGCAGAAGCGATGCTGAAAAACTACTTTGATTCCAAGGC
 AGATGTTGTTGAAACACTTCTACAGACGGATCAGTCACTCACAGAGGCAGCAAAGGAGGTAGAAGAGGAA
 CGTACGAAGGCTGAAGCTGCTGAAGCTGCAAACAGAGAGTTAGAAAAGAAGCAGAAGGAGTTGAGCTGA
 TGATGCAGCAGAAGGAAAAGAGTTACCAGGAGCATGTGAAGAAGCTGACTGAGAAGTAAAAGACGAACA
 GAAACAGTTATTAGCAGAACAGGAAAACATCATAGCTGCTAAACTTCGGGAACAGGAAAAATTTCTTAAG
 GAAGGATTCGAGAATGAGAGCAAAAACCTATTTCGAGAGATTGATACCCTGAAGCAAAACAAATCGTCTG
 GGAAGTGCATACTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_010260
- Insert Size:** 1770 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_010260.1](#), [NP_034390.1](#)

RefSeq Size: 2471 bp

RefSeq ORF: 1770 bp

Locus ID: 14469

UniProt ID: [Q9Z0E6](#)

Cytogenetics: 3 66.69 cM

Gene Summary: Hydrolyzes GTP to GMP in 2 consecutive cleavage reactions, but the major reaction product is GDP (By similarity). Exhibits antiviral activity against influenza virus. Promote oxidative killing and deliver antimicrobial peptides to autophagolysosomes, providing broad host protection against different pathogen classes (By similarity).[UniProtKB/Swiss-Prot Function]