

Product datasheet for **MC219463**

Gbp5 (NM_153564) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gbp5 (NM_153564) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gbp5
Synonyms:	5330409J06Rik; Gbp5a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219463 representing NM_153564
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCCAGAGATTCACATGCCAGAACCCTTGTGCCTCATTGGGAGCACCGAGGGACACCTAGTA
 ACCAGGAAGCCCTGAAGATTCTGTCTGCCATCACACAGCCAGTGGTGGTAGCCATTGTGGGTCTTTA
 TCGCACAGGCAAATCCTACCTGATGAACAAGCTGGCTGGGAAGGAGAAGGGCTTTTCTGTTGGATCCACT
 GTACAGTCTCACACCAAGGGGATCTGGATGTGGTGTGTGCCTCACCCCAAAAGCCAGACCACACTTTGG
 TTCTGCTTGACACTGAAGGCCTGGGAGATGTGGAGAAGGATGATAAAAAGAATGATACTCAGATCTTTGC
 ACTAGCAATCCTCCTCAGTAGCACCTTTGTATACAACACTATGAACAAAATTGACCAGGGGGCTATCGAC
 CTATTGCACAATGTGACAGAAGTACAGACTTGTCCGGACAAGAACTCCTCTGATTCTAATCAAAGT
 AGGGTGAAGGACCTGCTGACATGAGCTTCTCCAGACTTGGTGTGGACTCTGAGAGATTTCTTCTGGA
 CCTGCAAGCCAAATGGGCATGCCATCACATCAGATGAATATCTGGAGAATCACTGAAGCTGAAGCAAGGT
 AGCGATGAAAGAACTCAAACATTCAATCTACCGCGGCTGTGCATACAGAAGTTCTTCCAGTAAAGAAAT
 GCTTTGTTTTTGACGCTCCTGCGCTTGGGAAGTAAGCTTTCCAGCTTCCAACACTCAGCAACGAGGAGCT
 GAAGTCAAGATTTGTGCAGGACCTTTCAGAATTCTGTTACACATCTTACCCCAATTAAGACCAAGACT
 CTTCCAGGAGGCATCCAGGTCAACGGACCTCGTCTAGAAAGCCTGGTGTGACTTATGTCGATGCCATCA
 ACAGCGGGGCTCTGCCTTCCATAGAGAACACAGTAGTAACCTTGGCCCGGAGGGAGAAGTCTGCAGCAGT
 TCAAAAGGCCATTGGTCACTACGATCAGCTGATGAGCGAGAAGGTGCAGCTGCCACAGAGACCTCCAG
 GAGCTGCTGGACCTGCACCGACCTGTGAGCGAGAGGCCATAGAAATCTCAGGAAGCATTGTTCAAGG
 ATGAGGGTGAATTTTTCCAGAAAGAATTGGAGAGCCTACTAAGTGCAAAGCAGGATGAGATTTGTAAGAA
 GAACGCGGATGCTTCTGCAGCCCTCTGCTCAACCTACTTGGGAGTATTTTTAAGCCTCTGGAACAAGAA
 GTGGCGCAGGAGTTCTATCATAAACAGGAGGCCACAAGCTTCTCCTCAGAGGATGGAACAGCTGAAGG
 CAAATTACCGTCAGCAGCCAGGGAAGGGAACACAGGCTGAGGAAGTGTGTCAGACCTATTTGAACGCCAA
 AGAAACAGTGAGCCGTACAATTCTACAACAGACCAGGTTCTCACAGACAAGGAGATCCAGAGTAAAGCG
 GAACAAGAAAGAGCAGAGGCTGCCCGGCTCGAAGCACAGAGGTTGGAGGCTATTCGCATCCAGGAAGAGC
 AAAGGAAAGCAGAGATGGAGAGACAGCATCAAGAGCAATTGAGGCAAATAGCATTGGAGAAGGCAAGAGT
 TGCACAAGAGCAACAGTGGATCCTGAAGCAGAGAGCCAGGAAGGCTGATAGAATCAAGGCAGAGCAG
 GAAGCTCAACTCAGAGCACTTCAACAGCAGCTCCAACACATGAGGAAATGAACCACCACCGTAGACATC
 ATCATGACTGTGTATAAGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_153564
- Insert Size:** 1773 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_153564.2](#), [NP_705792.2](#)

RefSeq Size: 3021 bp

RefSeq ORF: 1773 bp

Locus ID: 229898

UniProt ID: [Q8CFB4](#)

Cytogenetics: 3 H1

Gene Summary: As an activator of NLRP3 inflammasome assembly, plays a role in innate immunity and inflammation. Promotes selective NLRP3 inflammasome assembly in response to microbial and soluble, but not crystalline, inflammasome activating agents (PubMed:22461501). Hydrolyzes GTP, but in contrast to other family members, such as GBP1 and GBP2, does not produce GMP (By similarity).[UniProtKB/Swiss-Prot Function]