

Product datasheet for **RG201236**

GBP1 (NM_002053) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBP1 (NM_002053) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201236 representing NM_002053
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCATCAGAGATCCACATGACAGGCCAATGTGCCTCATTGAGAACACTAATGGGCGACTGATGGCGA
 ATCCAGAAGCTCTGAAGATCCTTTCTGCCATTACACAGCCTATGGTGGTGGCAATTGTGGCCCTCTA
 CCGCACAGGCAAATCCTACCTGATGAACAAGCTGGCTGGAAGAAAAAGGGCTTCTCTCTGGCTCCACG
 GTGCAGTCTCACACTAAAGGAATCTGGATGTGGTGTGTGCCCCACCCCAAGAAGCCAGGCCACATCTAG
 TTCTGCTGGACACCGAGGGTCTGGGAGATGTAGAGAAGGGTGACAACCAGAATGACTCCTGGATCTTCGC
 CCTGGCCGTCCTCTGAGCAGCACCTTCGTGTACAATAGCATAGGAACCATCAACCAGCAGGCTATGGAC
 CAACTGTACTATGTGACAGAGCTGACACATAGAATCCGATCAAAATCCTCACCTGATGAGAATGAGAATG
 AGGTTGAGGATTCAGCTGACTTTGTGAGCTTCTCCAGACTTTGTGTGGACTGAGAGATTTCTCCCT
 GGACTTGAAGCAGATGGACAACCCCTCACACCAGATGAGTACCTGACATACTCCCTGAAGCTGAAGAAA
 GGTACCAGTCAAAAAGATGAAACTTTAACTGCCAGACTCTGTATCCGGAAATTTCTCCAAAGAAAA
 AATGCTTTGTCTTTGATCGGCCCGTTACCCGCAGGAAGCTTGCCAGCTCGAGAAACTACAAGATGAAGA
 GCTGGACCCCAATTTGTGCAACAAGTAGCAGACTTCTGTTCTACATCTTTAGTAATCCAAAATAAA
 ACTCTTTAGGAGGCATCCAGGTCAACGGGCTCGTCTAGAGAGCCTGGTGTGACCTACGTCAATGCCA
 TCAGCAGTGGGGATCTGCCGTGCATGGAGAACGCAGTCTGGCCTTGCCAGATAGAGAAGCTCAGCTGC
 AGTGCAAAAGGCTATTGCCACTATGAACAGCAGATGGCCAGAAGGTGCAGTGGCCACAGAAAGCCTC
 CAGGAGCTGCTGGACCTGCACAGGGACAGTGAGAGAGAGGCCATTGAAGTCTTCATCAGGATTCCTTCA
 AAGATGTGGACCATCTATTTCAAAGGAGTTAGCGGCCAGTAGAAAAAAGCGGGATGACTTTTGTAA
 ACAGAATCAGGAAGCATCATCAGATCGTTGCTCAGGTTTACTTCAGGTCATTTTCAGTCCTTAGAAGAA
 GAAGTGAAGCGGGAATTTATTCGAAACCAGGGGCTATCGTCTCTTTGTTGAGAAGCTACAAGACCTGA
 AGAAAAAGTACTATGAGGAACCGAGGAAGGGGATACAGGCTGAAGAGATTCTGCAGACATACTTGAAATC
 CAAGGAGTCTATGACTGATGCAATTTCTCCAGACAGACCAGACTCTCACAGAAAAAGAAAGGAGATTGAA
 GTGGAACGTGTGAAAGCTGAGTCTGCACAGGCTTCAGCAAAAATGTTGCAGGAAATGCAAGAAAGAAATG
 AGCAGATGATGGAACAGAAGGAGAGGAGTTATCAGGAACACTTGAACAACCTGACTGAGAAGATGGAGAA
 CGACAGGGTCCAGTTGCTGAAAGAGCAAGAGAGGACCCTCGCTCTTAACTTCAGGAACAGGAGCAACTA
 CTAAGAGAGGGATTTCAAAGAAAGCAGAATAATGAAAAATGAGATACAGGATCTCCAGACGAAATGA
 GACGACGAAAGGCATGTACCATAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201236 representing NM_002053
 Red=Cloning site Green=Tags(s)

MASEIHMTGPMCLIENTNGRMLMANPEALKILSAITQPMVVVAIVGLYRTGKSYLMNKLKAGKKKGFSLGST
 VQSHTKGIWMWCVPHPKKPGHILVLLDTEGLGDVEKGDNDNSWIFALAVLLSSTFVYNSIGTINQQAMD
 QLYYVTELTHRIRSKSSPDENENEVEDSADFVSFFPDFVWTLRDFSLDLEADGQPLTPDEYLTYSLKLLK
 GTSQKDETFNLPRLCIRKFFPKKCFVDRPVHRRKLAQLEKLQDELDPEFVQVADFCYSYIFSNSKTK
 TLSGGIQVNGPRLESVLTYVNAISSGDLPCMENAVLALAQIENSAAVQKAI AHYEQQMGQKVLPTESL
 QELLDLHRDSEREAIEVFIRSSFKDVDHLFQKELAAQLEKKRDFCKQNQEASSDRCSGLLQVIFSPLEE
 EVKAGIYSKPGGYRLFVQKLQDLKKKYYEPRKGIQAEELQTYLKSKESTDAIQDQTLTEKEKEIE
 VERVKAESAQASAKMLQEMQRKNEQMQKERSYQEHKQLTEKMENDRVQLLKEQERTLALKLQEQEQ
 LKEGFQKESRIMKNEIQDLQTKMRRRKACTIS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002053

ORF Size: 1776 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_002053.1](#), [NP_002044.1](#)

RefSeq Size: 2881 bp

RefSeq ORF: 1779 bp

Locus ID: 2633

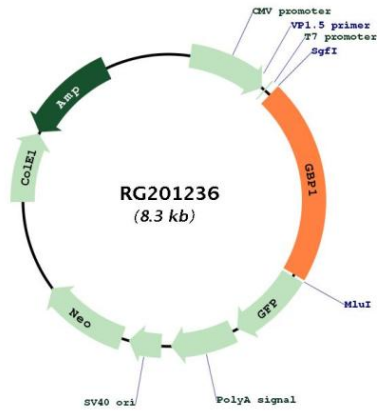
UniProt ID: [P32455](#)

Cytogenetics: 1p22.2

Domains: GBP

Gene Summary: Guanylate binding protein expression is induced by interferon. Guanylate binding proteins are characterized by their ability to specifically bind guanine nucleotides (GMP, GDP, and GTP) and are distinguished from the GTP-binding proteins by the presence of 2 binding motifs rather than 3. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201236