

Product datasheet for **RG214371**

GBP6 (NM_198460) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	GBP6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG214371 representing NM_198460
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAATCTGGACCCAAATGTTGGCCCCGTTTGCCAGGTGGAAAATAACAATGAGCAGCTATTGGTGA
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 CCGTACAGGGAAATCCTACTTGATGAACCATCTGGCAGGACAGAATCATGGCTTCCTCTGGGCTCCACG
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 TCCTTCTGGACACCGAAGGTCTGGGCGATGTGAAAAGGGTGACCTAAGAATGACTCCTGGATCTTTGC
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 CTCCCCTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

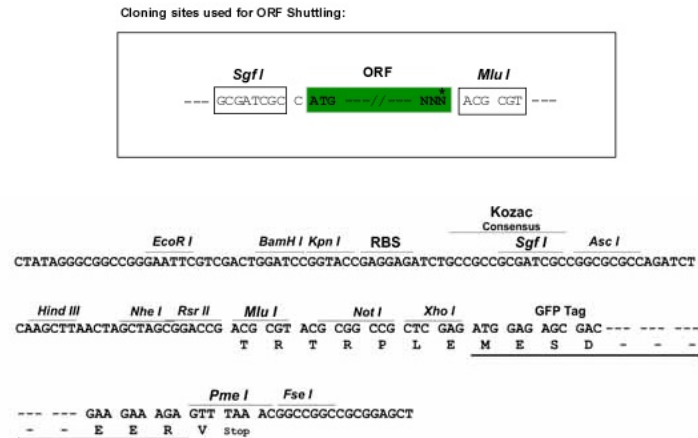
Protein Sequence: >RG214371 representing NM_198460
 Red=Cloning site Green=Tags(s)

MESGPKMLAPVCQVENNNEQLLVNQQAIIQILEKISQPVVVVAIVGLYRTGKSYLMNHLAQNHGFPLGST
 VQSETKGIWMWCVPHPSKPNHTLVLLDTEGLGDVEKGDPKNDSWIFALAVLLCSTFVYNSMSTINHQAILE
 QLHYVTELTTELKAKSSPRPDGVEDSTEFVSFFPDFLWTVRDTLELKLNGHPITEDEYLENALKLIQGN
 NPRVQTSNFPRECIRRFPPKRKCFVDRPTNDKDLLANIEKVSEKQLDPKFQEQTNIFCSYIFTHARTKT
 LREGITVTGNRLGTLAVTYVEAINSGAVPCLEDAVITLAQRENSAAVQRASDYYSQQMAQRVKFPDTDLQ
 ELLLDVHAACEREAIIFMEHSFKDENQEFQKKFMETTMNKKGDFLLQNEESSVQYQC AKLNELSKGLMES
 ISAGSFSVPGGHKLYMETKERIEQDYWQVPRKGVKAKEVFQRFLESQMVEESILQSDKALTDREKAVAV
 DRAKKEAAEKEQELLKQKLQEQQQMEAQVKSRENIAQLKEKLQMERHLLREQIMMLEHTQKVQNDWL
 HEGFKKKYEEMNAEISQFKRMIDTTKNDTPWIARTLDNLADELTAILSAPAKLIHGVKGVSSLFKKHKH
 LPF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198460

ORF Size: 1899 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_198460.1](#), [NP_940862.1](#)

RefSeq Size: 3047 bp

RefSeq ORF: 1902 bp

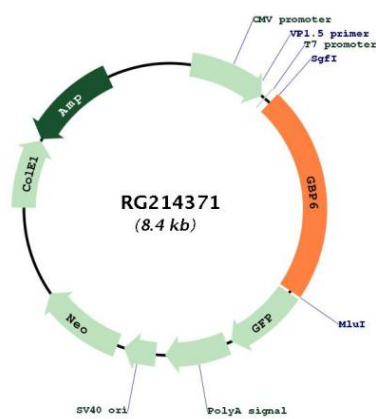
Locus ID: 163351

UniProt ID: [Q6ZN66](#)

Cytogenetics: 1p22.2

Gene Summary: Guanylate-binding proteins, such as GBP6, are induced by interferon and hydrolyze GTP to both GDP and GMP (Olszewski et al., 2006 [PubMed 16689661]).[supplied by OMIM, Dec 2008]

Product images:



Circular map for RG214371