

## Product datasheet for **MG209492**

### **Gbp3 (NM\_018734) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gbp3 (NM_018734) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gbp3
Synonyms:	AW228655; GBP-3; GBP-4; Gbp4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209492 representing NM\_018734  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGCACCCATTTGTCTGGTGGAAACTGGAAAAATCAGCTGACAGTAAATCTGGAGGCCATAAGGA  
 TTCTTGAGCAGATAGCACAGCCTCTGGTGGTGGGCCATTGTTGGTTTATATCGTACAGGGAAATCCTA  
 CCTCATGAATCGTCTTGACAGACGGAACCATGGCTTCTCCTTGGGCTCCACGGTGAATCCGAAACCAAG  
 GGTATCTGGATGTGGTGTGTGCCCATCCACCAAGCCAACACACACCCTGGTCTTTTGGACACTGAAG  
 GCCTTGGTGTAGTAAAAAGGTGACCCTAAGAATGACTCATGGATCTTCGCCCTGGCTGTCTTCTGAG  
 CAGCACCTTTGTCTACAACAGCATGAGCACCATCAACCAGCAGGCCCTGGAGCAGCTGCATTTTGTGACT  
 GAATTAACACAGTAATCCGGGCAAAATCGAGCCCAGAGAGGACAAAGTGAAGGACTCCAGTGAGTTT  
 TAGGTTTCTTCCAGACTTATCTGGGCTGTTTCGAGATTTTCTCTGGAGCTGAAGTTAAAAGTTCGGCC  
 CATCACAGAAGATGAGTACCTGGAGAATGCCCTGAGGCTGATCCCAGGAGACAATCCCAAAGTCCAACAG  
 TCCAACATGACCAGAGAATGTATCAGATATTTTTTCCGGTACGGAAGTCTTTGTCTTTGACAGGCCCA  
 CAAGCGACAAACGTTTATTGCTCCAATTTGAAAATGTTCCAGAAAACCAACTGGAACGGAATTTCCAGGT  
 TGAATCAGAAAAATCTGTTCTACATCTTACCAACGGCAAGACCAAGACTCTGAGAGGGGGAGTCATT  
 GTCACAGGAAATCGGCTGGGGACTTTGGTGCAGACCTATGTGAATGCCATCAACAGTGGGACTGTGCCTT  
 GTCTGGAGAACGCAGTGACAACCTGGCCAGCGTGAGAACTCCATAGCTGTGCAGAAGGCAGCTGACCA  
 CTACAGTGAGCAGATGGCCAGCGAGTGAGGCTCCCCACAGACACGCTCCAGGAGCTGTGACTGTGCAT  
 GCAGCCTGTGAGAAGGAAGCCATTGCTGTCTTTCATGGAGCACTCCTTCAAGGATGATGAGCAGGATTCC  
 AGAAGAAGCTGGTGGTCAACATAGAGGAAAGGAAGAGATTCATGCGACAGAACAAGCAGCATCTAT  
 TCGTCACTGCCAGGCTGAACCTGGAGAGGCTTTCAGAGTCCCTGAGGAAGAGCATCTCTGTGGAGCTTTC  
 TCTGTTCTGGGGTACAGCCTCTACTTAGAAGCCAGGAAGAAGATTGAGCTGGGCTACCAGCAAGTGC  
 CGAGGAAGGGAGTGAAGGCAAAAGAGGTTCTCAAGAGTTTCTACAGTCACAGGCTGTTATGGAGGACTC  
 TATCTTGACAGTACAGCAAAGCTTACAGATGGAGAGAGGCCATAGCAGCTGAGCGGACAAAGAAGGAA  
 GTGGCTGAGAAAGAACTAGAGCTGCTGAGGCAGAGACAGAAGGAGCAAGAGCAAGTATGGAGGCTCAGG  
 AGAGAAGCTTCCGAGAAAACATTGCTAACTTCAGGAGAAGATGGAGAGCGAAAAGGAGATGCTGCTGAG  
 GGAGCAGGAGAAGATGCTGGAGCACAAGCTGAAGTCCAAGAAGAACTGCTTACTGAAGGATTACAGAG  
 AAATCTGATATGTTAAAGAAATGAAATAAGTCACCTGAGAGAAGAGATGGAAGAACAAGAAGGAAACCT  
 CACTGTTTGGTCAAATCCTTGATACCGTTGGCAATGCGTTTCAATTATGATTTTACCAGGAGCTGGTAACT  
 ATTTGGTGTGGGCTGAAATTCCTCGGCTCACTAAGTAAT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209492 representing NM\_018734  
 Red=Cloning site Green=Tags(s)

MEAPICLVENWKNQLTVNLEAIRILEQIAQPLVVVAIVGLYRTGKSYLMNRLAGRNHGFSLGSTVQSETK  
 GIWMWCVPHPTKPTHLLVLLDTEGLGDVEKGDPKNDWIFALAVLLSSTFVYNSMSTINQALEQLHFVT  
 ELTQLIRAKSSPREDKVKDSSEFVGFPPDFIWA VRDFALELKLKGRPITEDEYLENALRLIPGDNPKVQQ  
 SNMTRECIRYFFVPRKCFVDRPTSDKRLLLQIENVPENQLERNFQVESEKFCSYIFTNGTKTKLRRGGVI  
 VTGNRLGTLVQTYVNAINSQVPCLENAVTTLAQRENSIAVQKAADHYSEQMAQRVRLPTDTLQELLTVH  
 AACEKEIAVFMHSFKDDEQEFQKLVVTIEERKEEFMRQNEAASIRHCQAELERLSESLRKSISCGAF  
 SVPGGHSLYLEARKKIELGYQQVPRKGVKAKEVLKSFLQSQAVMEDSILQSDKALTDGERIAAERTKKE  
 VAEKELELLRQRQKEQEVMQAQERSFRENIAKLQEKMESEKEMLLREQEKMLEHKLKVQEELLTEGFRE  
 KSDMLKNEISHLREEMERTRRKPSLFGQILDVTGNVAFIMILPGAGKLFVGLKFLGSLSN

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_018734.2</a>
<b>RefSeq Size:</b>	2639 bp
<b>RefSeq ORF:</b>	1863 bp
<b>Locus ID:</b>	55932
<b>UniProt ID:</b>	<a href="#">Q61107</a>
<b>Cytogenetics:</b>	3 H1
<b>Gene Summary:</b>	Binds GTP, GDP and GMP. Hydrolyzes GTP very efficiently; GDP rather than GMP is the major reaction product. Plays a role in erythroid differentiation.[UniProtKB/Swiss-Prot Function]