

## Product datasheet for **RG224549**

### **GBP3 (NM\_018284) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GBP3 (NM_018284) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GBP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG224549 representing NM\_018284  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCCAGAGATCCACATGACAGGCCAATGTGCCTCATTGAGAACACTAATGGGGAAGTGGTGCGA  
 ATCCAGAAGCTCTGAAAATCCTGTCTGCCATTACACAGCCTGTGGTGGTGGCAATTGTGGCCCTCTA  
 CCGCACAGGAAAATCCTACCTGATGAACAAGCTAGCTGGGAAGAATAAGGGCTTCTCTCTGGCTCCACA  
 GTGAAATCTCACACAAAGGAATCTGGATGTGGTGTGTGCCTCACCCAAAAAGCCAGAACACACCTTAG  
 TCCTGCTTGACTGAGGGCCTGGGAGATGTAAGAAGGGTGACAACCAGAATGACTCCTGGATCTTCAC  
 CCTGGCCGTCCTCTGAGCAGCACTCTCGTGTACAATAGCATGGGAACCATCAACCAGCAGGCTATGGAC  
 CAACTGTACTATGTGACAGAGCTGACACATCGAATCCGATCAAAATCCTCACCTGATGAGAATGAGAATG  
 AGGATTCAGCTGACTTTGTGAGCTTCTCCAGATTTTGTGTGGACTGAGAGATTTCTCCTGGACTT  
 GGAAGCAGATGGACAACCCCTCACACCAGATGAGTACCTGGAGTATCCCTGAAGCTAACCAAGGTACC  
 AGTCAAAAAGATAAAAATTTTAATCTGCCCGACTCTGTATCCGGAAGTCTTCCAAAGAAAAAATGTT  
 TTGTCTTCGATCTGCCATTACCCGAGGAAGCTTGCCAGCTTGAGAACTACAAGATGAAGAGCTGGA  
 CCCTGAATTTGTGCAACAAGTAGCAGACTTCTGTTCTACATCTTAGCAATCCAAAACAAAACCTCTT  
 TCAGGAGGCATCAAGGTCAATGGCCCTCGTCTAGAGAGCCTAGTGTGACCTATATCAATGTCTATCAGCA  
 GAGGGGATCTGCCCTGCATGGAGAACGCAGTCTGGCCTTGCCAGATAGAGAAGTCAAGCCGAGTGA  
 AAAGGCTATTGCCACTATGACCAGCAGATGGCCAGAAGGTGCAGCTGCCCGCAGAAACCCCTCAGGAG  
 CTGTGGACCTGCACAGGGTTAGTGAGAGGGAGGCCACTGAAGTCTATATGAAGAAGTCTTCAAGGATG  
 TGGACCATCTGTTTCAAAAGAAAATAGCGGCCAGCTAGACAAAAGCGGGATGACTTTTGTAAACAGAA  
 TCAAGAAGCATCATCAGATCGTTGCTCAGCTTTACTTCAGGTCAATTTTCAGTCCTTAGAAGAAGAAGTG  
 AAGCGGGAAATTTATTCGAAACAGGGGCTATTGTCTTTTATTCAGAAGCTACAAGACCTGGAGAAAA  
 AGTACTATGAGGAACCAAGGAAGGGGATACAGGCTGAAGAGATTCTGCAGACATACTTGAATCCAAGGA  
 GTCTGTGACCGATGCAATTTACAGACAGACCAGATTCTCACAGAAAAGAAAAGGAGATTGAAGTGGA  
 TGTGTAAGGCTGAATCTGCACAGGCTTACGCAAAAATGGTGGAGGAAATGCAATAAAGTATCAGCAGA  
 TGATGGAAGAGAAAGAGAAGAGTTATCAAGAACATGTGAAACAATTGACTGAGAAGATGGAGAGGGAGAG  
 GGCCAGTTGCTGGAAGAGCAAGAGAAGACCCTACTAGTAACTTCAGGAACAGGCCGAGTACTAAAG  
 GAGAGATGCCAAGGTGAAAGTACCAACTTCAAAATGAGATACAAAAGCTACAGAAGACCCTGAAAAAAA  
 AAACCAAGAGATATATGTCGCATAAGCTAAAGATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG224549 representing NM\_018284  
 Red=Cloning site Green=Tags(s)

MAPEIHMTGPMCLIENTNGELVANPEALKILSAITQPVVVVAIVGLYRTGKSYLMNKLKAGKNGFSLGST  
 VKSHTKGIWMWCVPHPKKPEHTLVLLDTEGLGDVKKGDNDNSWIFTLAVLLSSTLVYNSMGTINQQAMD  
 QLYYVTELTTHRIRSKSSPDENENEDSADFVSFFPDFVWTLRDFSLDLEADGQPLTPDEYLEYSKLTQGT  
 SQKDKNFNLRPCIRKFFPKKCFVFDLPIHRRKLAQLEKLQDEELDPEFVQQVADFCSYIFSNSKTKTL  
 SGGIKVNGPRLESVLTYINAIISRGDLPCMENAVLALAQIENSAAVQKAI AHYDQMQGQKVLPAETLQE  
 LLDLHRVSEREATEVYMKNSFKVDHFLFQKLAQLDKKRDDFCQKQNEASSDRCSALLQVIFSPLEEEV  
 KAGIYSKPGGYCLFIQKLQDLEKKYEEPRKGIQAEIILQTYLKSKE SVTDAILQTDQILTEKEKEIEVE  
 CVKAESAQASAKMVEEMQIKYQQMEEKEKSYQEHVKQLTEKMERERAQLLEEQEKTLTSLKLEQARVLK  
 ERCQGESTQLQNEIQKLQKTLKKKTKRYMSHKLKI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul



<b>ORF Size:</b>	1785 bp
<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_018284.3</a>
<b>RefSeq Size:</b>	3051 bp
<b>RefSeq ORF:</b>	1788 bp
<b>Locus ID:</b>	2635
<b>UniProt ID:</b>	<a href="#">Q9H0R5</a>
<b>Cytogenetics:</b>	1p22.2
<b>Domains:</b>	GBP
<b>Gene Summary:</b>	This gene encodes a member of the guanylate-binding protein (GBP) family. GBPs specifically bind guanine nucleotides (GMP, GDP, and GTP) and contain two of the three consensus motifs found in typical GTP-binding proteins. The encoded protein interacts with a member of the germinal center kinase family. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2017]