

## Product datasheet for **SC318025**

### GBP3 (NM\_018284) Human Untagged Clone

#### Product data:

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Type:             | Expression Plasmids                   |
| Product Name:             | GBP3 (NM_018284) Human Untagged Clone |
| Tag:                      | Tag Free                              |
| Symbol:                   | GBP3                                  |
| Mammalian Cell Selection: | None                                  |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>      |
| E. coli Selection:        | Ampicillin (100 ug/mL)                |



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_018284 edited  
 ATGGCTCCAGAGATCCACATGACAGGCCCAATGTGCCTCATTGAGAACACTAATGGGGAA  
 CTGGTGGCGAATCCAGAAGCTCTGAAAATCCTGTCTGCCATTACACAGCCTGTGGTGGTG  
 GTGGCAATTGTGGGCCTCTACCGCACAGGAAAATCCTACCTGATGAACAAGCTAGCTGGG  
 AAGAATAAGGGCTTCTCTCTGGGCTCCACAGTAAATCTCACACCAAAGGAATCTGGATG  
 TGGTGTGTGCCTACCCCAAAAAGCCAGAACACACCTTAGTCTGCTTGACACTGAGGGC  
 CTGGGAGATGTAAGAAGGGTGACAACCAAGAAATGACTCCTGGATCTTACCCTGGCCGTC  
 CTCTGAGCAGCACTCTCGTGTACAATAGCATGGGAACCATCAACCAGCAGGCTATGGAC  
 CAACTGTACTATGTGACAGAGCTGACACATCGAATCCGATCAAAAATCCTCACCTGATGAG  
 AATGAGAATGAGGATTACAGTGACTTTGTGAGCTTCTTCCAGATTTTGTGTGGACACTG  
 AGAGATTTCTCCCTGGACTTGAAGCAGATGGACAACCCCTCACACCAGATGAGTACCTG  
 GAGTATTCCTGAAGCTAACGCAAGGTACCAGTCAAAAAGATAAAAAATTTAATCTGCC  
 CGACTCTGTATCCGGAAGTTCTTCCAAAGAAAAATGTTTTGTCTTCGATCTGCCATT  
 CACCGCAGGAAGCTTGGCCAGCTTGAGAACTACAAGATGAAGAGCTGGACCCTGAATTT  
 GTGCAACAAGTAGCAGACTTCTGTTCCTACATCTTTAGCAATTCAAAACAAAACCTCTT  
 TCAGGAGGCATCAAGGTCAATGGCCCTCGTCTAGAGAGCCTAGTCTGACCTATATCAAT  
 GCTATCAGCAGAGGGATCTGCCCTGCATGGAGAACGCAGTCTGGCCTTGGCCCAGATA  
 GAGAACTCAGCCGAGTGCAAAAAGGCTATTGCCCACTATGACCAGCAGATGGCCAGAAG  
 GTGCAGCTGCCCGCAGAAACCCCTCCAGGAGCTGCTGGACCTGCACAGGGTTAGTGAGAGG  
 GAGGCCACTGAAGTCTATATGAAGAACTTTTCAAGGATGTGGACCATCTGTTTCAAAG  
 AAATTAGCGGCCAGCTAGACAAAAGCGGGATGACTTTTGTAAACAGAATCAAGAAGCA  
 TCATCAGATCGTTGCTCAGCTTTACTTCAGGTCATTTTCAGTCTCTAGAAGAAGAAGTG  
 AAGGCGGAATTTATTCGAAACCAAGGGGCTATTGTCTTTTATTCAGAAGCTACAAGAG  
 CTGGAGAAAAAGTACTATGAGGAACCAAGGAAGGGGATACAGGCTGAAGAGATTCTGCAG  
 ACATACTTGAATCCAAGGAGTCTGTGACCGATGCAATTTACAGACAGACCAGATTCTC  
 ACAGAAAAGGAAAAGGAGATTGAAGTGAATGTGTAAGCTGAATCTGCACAGGCTTCA  
 GCAAAAATGGTGGAGGAAATGCAATAAAGTATCAGCAGATGATGGAAGAGAAAGAGAAG  
 AGTTATCAAGAACATGTGAAACAATTGACTGAGAAGATGGAGAGGGAGAGGGCCAGTTG  
 CTGGAAGAGCAAGAGAAGACCCTACTAGTAACTTCAGGAACAGGCCCGAGTACTAAAG  
 GAGAGATGCCAAGGTGAAAGTACCAACTTCAAAATGAGATACAAAAGCTACAGAAGACC  
 CTGAAAAAAAACCAAGAGATATATGTCGCATAAGCTAAAGATCTAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_018284

**Insert Size:** 3000 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_018284.2](#), [NP\\_060754.2](#)

**RefSeq Size:** 3051 bp

**RefSeq ORF:** 1788 bp

**Locus ID:** 2635

**UniProt ID:** [Q9H0R5](#)

**Cytogenetics:** 1p22.2

**Domains:** GBP

**Gene Summary:** 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]  
Transcript Variant: This variant (1) encodes the longest isoform (1).