

Product datasheet for **SC310264**

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>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_018284 edited
 ATGGCTCCAGAGATCCACATGACAGGCCCAATGTGCCTCATTGAGAACACTAATGGGGAA
 CTGGTGGCGAATCCAGAAGCTCTGAAAATCCTGTCTGCCATTACACAGCCTGTGGTGGT
 GTGGCAATTGTGGGCCTACCCGACAGGAAAATCCTACCTGATGAACAAGCTAGCTGGG
 AAGAATAAGGGCTTCTCTCTGGGCTCCACAGTGAATCTCACACCAAAGGAATCTGGATG
 TGGTGTGTGCCTACCCCAAAAAGCCAGAACACACCTTAGTCTGCTTGACTGAGGGC
 CTGGGAGATGTAAGAAGGGTGACAACCAAGAACTGACTCCTGGATCTTACCCTGGCCGTC
 CTCTGAGCAGCACTCTCGTGTACAATAGCATGGGAACCATCAACCAGCAGGCTATGGAC
 CAACTGTACTATGTGACAGAGCTGACACATCGAATCCGATCAAAAATCCTCACCTGATGAG
 AATGAGAATGAGGATTACAGTACTTTGTGAGCTTCTTCCAGATTTTGTGTGGACTG
 AGAGATTTCTCCCTGGACTTGAAGCAGATGGACAACCCCTCACACCAGATGAGTACCTG
 GAGTATTCCTGAAGCTAACGCAAGGTACCAGTCAAAAAGATAAAAAATTTAATCTGCC
 CGACTCTGTATCCGGAAGTTCTCCAAAGAAAAATGTTTTGTCTTCGATCTGCCATT
 CACCGCAGGAAGCTTGCCAGCTTGAGAACTACAAGATGAAGAGCTGGACCCTGAATTT
 GTGCAACAAGTAGCAGACTTCTGTCTACATCTTTAGCAATTCAAAATAAACTCTT
 TCAGGAGGCATCAAGGTCAATGGCCCTCGTCTAGAGAGCCTAGTCTGACCTATATCAAT
 GCTATCAGCAGAGGGATCTGCCCTGCATGGAGAACGCAGTCTGGCCTTGGCCAGATA
 GAGAACTCAGCCGAGTGCAAAAAGGCTATTGCCACTATGACCAGCAGATGGCCAGAAG
 GTGCAGCTGCCCGCAGAAACCCCTCCAGGAGCTGCTGGACTGCACAGGGTTAGTGAGAGG
 GAGGCCACTGAAGTCTATATGAAGAACTTTTCAAGGATGTGGACCATCTGTTTCAAAG
 AAATTAGCGGCCAGCTAGACAAAAGCGGGATGACTTTTGTAAACAGAATCAAGAAGCA
 TCATCAGATCGTTGCTCAGCTTTACTTCAGGTCATTTTTCAGTCTCTAGAAGAAGAAGTG
 AAGGCGGAATTTATTCGAAACCAGGGGCTATTGTCTTTTATTCAGAAGCTACAAGC
 CTGGAGAAAAAGTACTATGAGGAACCAAGGAAGGGGATACAGGCTGAAGAGATTCTGCAG
 ACATACTTGAATCCAAGGAGTCTGTGACCGATGCAATTTACAGACAGACCAGATTCTC
 ACAGAAAAGGAAAAGGAGATTGAAGTGAATGTGTAAAAGCTGAATCTGCACAGGCTTCA
 GCAAAAATGGTGGAGGAAATGCAATAAAGTATCAGCAGATGATGGAAGAGAAAGAGAAG
 AGTTATCAAGAACATGTGAAACAATTGACTGAGAAGATGGAGAGGGAGAGGGCCAGTTG
 CTGGAAGAGCAAGAGAAGACCCTACTAGTAACTTCAGGAACAGGCCGAGTACTAAAG
 GAGAGATGCCAAGGTGAAAGTACCCAATTCAAAATGAGATACAAAAGCTACAGAAGACC
 CTGAAAAAAAACCAAGAGATATATGTCGCATAAGCTAAAGATCTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018284 unedited
 TTCGCGATTTATGTAATACGACTCACTATAGGGCGGCCGCGCATTCCGGCACCANAAAAGTT
 GCTTAACCTTAATTATTTGATCACTGAGGAAAATCCAGAAAAGCTACACAACACTGAAGG
 GGTGAAATAAAAGTCCAGCGATCCAGCGAAAGAAAAGAGAAGTGACAGAAAACAATTTAC
 CTGGACTGAAGATAAAAGCACAGACAAGAGAACAATGCCCTGGACATGGCTCCAGAGATC
 CACATGACAGGCCAATGTGCCCTATTGAGAACACTAATGGGAACTGGTGGCGAATCCA
 GAAGCTCTGAAAATCCTGTCTGCCATTACACAGCCTGTGGTGGTGGCAATTGTGGGC
 CTCTACCGCACAGGAAAATCCTACCTGATGAACAAGCTAGCTGGGAAGAAATAAGGGCTTC
 TCTCTGGGCTCCACAGTGAATCTCACACCAAAGGAATCTGGATGTGGTGTGTGCCTCAC
 CCCAAAAAGCCAGAACACACCTTAGTCCTGCTTGACACTGAGGGCCTGGGAGATGTAAG
 AAGGGTGACAACCAGAATGACTCCTGGATCTTACCCTGGCCGTCCTCTGAGCAGCACT
 CTCGTGTACAATAGCATGGGAACCATCAACCAGCAGGCTATGGACCAACTGTACTATGTG
 ACAGAGCTGACACATCGAATCCGATCAAAAATCCTCACCTGATGAGAATGAGAATGAGGAT
 TCAGTACTTTGTGAGCTTCTTCCAGATTTTGTGTGGACTGAGAGATTTCTCCCTG
 GACTTGGAAAGCAGATGGACAACCCCTCACACCAGATGAGTACCTGAAGTATTNCCTGAAGC
 TAGCCAGGTACCAGTCAAAAGATAAAAATTTAATCTGCCCCGACTCTGTATCCGGAAGT
 TCTTCCAAAGAAAAATGTTTTGTTTCGATCTGCCATTACGCAGGGAGCTTGTCCAGC
 TCGAGAATAACAAG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018284 unedited TTTTAGCNNANAAATTAACNTGNNACCGCGCCGCTTNTAGNGATCGATTTTTTTTTTT TTTTTTTTATTTCTAGTTTAGTTTATTTCTAGTTCAAAAAATCTGTAATTGCTGTAAGA AATGTCAACCACTTACCTAGGATGTTTGACAATTGGGATGAAGTCTACATATACTAAGTA ATGGCAAGACAATTATTTATTGCTCAAAGAAAGTCAAAAAATCCATATTCCTTTG GGGAAAATTGGCAGGATTTCAAGTATGACCTTTAAGAATCAGGAAAAGACTAACTATGC TTTAGGATTAACAATCAAATAATTAATTAAGTTCAATTTTCTAACATAGTCTCTATCT TCAGTTAAAGTGCATCATTGCATGTTATACATTACTAAAATTACACAGTGCATAATTGTT ACCATGTGACTATTTAATTCAGGGTCAACTGTCTAAAGGTCTCAGGTGTACATTAAGGT TATAATCTAGATGAATTGAACAAGAAAAGATTTCTTATTAGCCAATTTGTTTATG ATTCAATTCCTACTCTTGCTAATGATTTCTTTACCTTCTATGGAAAATAAAGATTCTA GATCTCTGTATAAGATGGTTTGCTTTAGCTTGAGATCCATCAGTGAGAATTATCCATGG CAATGTCCAGAATCGCATTATTGCTCATAGACCTGTAGCCTTGATATAATGGAGGACT GTACACTGNTCTCCNTAGAAAGCTAGATGGGTTGGTTCTGATAATGGGGACCCATTGT ACACTTGGCCCAACCAAGTCCCAATATGTCCNAGATTTTACCTAAGACTTTCNTAG TATCCACTGGTCTGTGGGAGAATAACTTCTGAGTGGCGCACTCATGATCC
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:	<ol style="list-style-type: none"> 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:	<u>NM_018284.1</u> , <u>NP_060754.1</u>
RefSeq Size:	2952 bp
RefSeq ORF:	1692 bp
Locus ID:	2635
UniProt ID:	<u>Q9H0R5</u>
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).