

Product datasheet for **SC117571**

GBP2 (NM_004120) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBP2 (NM_004120) Human Untagged Clone
Tag:	Tag Free
Symbol:	GBP2
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_004120 edited
 ATGGCTCCAGAGATCAACTTGCCGGGCCAATGAGCCTCATTGATAAACTAAAGGGCAG
 CTGGTGGTGAATCCAGAAGCTCTGAAGATCCTATCTGCAATTACGCAGCCTGTGGTGGT
 GTGGCGATTGTGGGCCTCTATCGCACAGGCAAATCCTACCTGATGAACAAGCTGGCTGGG
 AAGAAAAACGGCTTCTCTAGGCTCCACAGTGAAGTCTCACACCAAGGGAACTCTGGATG
 TGGTGTGTGCCTCATCCCAAGAAGCCAGAACACACCCTAGTTCTGCTCGACACTGAGGGC
 CTGGGAGATATAGAGAAGGGTGACAATGAGAATGACTCCTGGATCTTTGCCTTGGCCATC
 CTCTGAGCAGCACCTTGTGTACAATAGCATGGGAACCATCAACCAGCAGGCCATGGAC
 CAACTTCACTATGTGACAGAGCTGACAGATCGAATCAAGGCAAACCTCCTCACCTGGTAAC
 AATTCTGTAGACGACTCAGCTGACTTTGTGAGCTTTTTCCAGCATTGTGTGGACTCTC
 AGAGATTTACCCTGGAAGTGAAGTAGATGGAGAACCCATCACTGCTGATGACTACTTG
 GAGCTTTCGCTAAAGCTAAGAAAAGTACTGATAAGAAAAGTAAAAGCTTAAATGATCCT
 CGGTTGTGCATCCGAAAGTCTTCCCAAGAGGAAGTCTTCGCTTCGATTGGCCCGCT
 CCTAAGAAGTACCTTGTACCTAGAGCAGCTAAAGGAGGAAGAGCTGAACCCTGATTTT
 ATAGAACAAGTTGCAGAATTTTGTCTACATCCTCAGCCATTCCAATGTCAAGACTCTT
 TCAGGTGGCATTGCAGTCAATGGCCTCGTCTAGAGAGCCTGGTCTGACCTACGTCAAT
 GCCATCGGCAGTGGGGATCTACCCTGCATGGAGAACGCAGTCTGGCCTTGGCCCAGATA
 GAGAACTCAGCCGAGTGGAAAAGGCTATTGCCCACTATGAACAGCAGATGGGCCAGAAG
 GTGCAGCTGCCACGAAACCCTCCAGGAGCTGCTGGACTGCACAGGGACAGTGAAGAGA
 GAGGCCATTGAAGTCTTCATGAAGAAGTCTTCAAGGATGTGGACCAAATGTTCCAGAGG
 AAATTAGGGGCCAGTTGGAAGCAAGGCGAGATGACTTTTGAAGCAGAATCCAAGCA
 TCATCAGATTGTTGCATGGCTTTACTTCAGGATATATTTGGCCCTTTAGAAGAAGATGTC
 AAGCAGGAACATTTTCTAAACCAGGAGTACCCTCTTTACTCAGAAGCTGCAGGAG
 CTGAAGAATAAGTACTACCAGGTGCCAAGGAAGGGGATACAGGCCAAAGAGGTGCTGAAA
 AAATATTTGGAGTCCAAGGAGGATGTGGCTGATGCACTTCTACAGACTGATCAGTCACTC
 TCAGAAAAGGAAAAAGCGATTGAAGTGGAACTGATAAAGGCTGAATCTGCAGAAGCTGCA
 AAGAAAATGTTGGAGGAAATACAAAAGAAGAATGAGGAGATGATGGAACAGAAAGAGAAG
 AGTTATCAGGAACATGTGAAACAATTGACTGAGAAGATGGAGAGGGACAGGGCCAGTTA
 ATGGCAGAGCAAGAGAAGACCCTCGCTCTTAAACTTCAGGAACAGGAACGCCTTCTCAAG
 GAGGGATTGAGAATGAGAGCAAGAGACTTCAAAAAGACATATGGGATATCCAGATGAGA
 AGCAAATCATTGGAGCCAATATGTAACATACTCTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004120 unedited
 GTTTACCATATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGGCAGGAGATTTT
 ATCTTTTTCTTGCACACAAGGGNAACAACACCCTGGACATGGCTCCAGAGATCAACTTG
 CCGGGCCCAATGAGCCTCATTGATAAACTAAAGGGCAGCTGGTGGTGAATCCAGAAGCT
 CTGAAGATCCTATCTGCAATTACGCAGCCTGTGGTGGTGGCGATTGTGGCCTCTAT
 CGCACAGGCAAACTCCTACCTGATGAACAAGCTGGCTGGGAAGAAAACGGCTTCTCTA
 GGCTCCACAGTGAAGTCTCACACCAAGGGAATCTGGATGTGGTGTGTGCCTCATCCCAAG
 AAGCCAGAACACACCCTAGTTCTGCTCGACACTGAGGGCCTGGGAGATATAGAGAAGGGT
 GACAATGAGAATGACTCCTGGATCTTTGCCTTGGCCATCCTCCTGAGCAGCACCTTCGTG
 TACAATAGCATGGGAACCATCAACCAGCAGGCCATGGACCAACTTCACTATGTGACAGAG
 CTGACAGATCGAATCAAGGCAAACCTCCTCACCTGGTAACAATTCTGTAGACGACTCAGCT
 GACTTTGTGAGCTTTTTTCCAGCATTGTGTGGACTCTCAGAGATTTACCCTGGAAGT
 GAAGTAGATGGAGAACCCATCACTGCTGATGACTACTTGGAGCTTTCGCTAAAGCTAAGA
 AAAGTACTGATAAGAAAAGTAAAAGCTTAAATGATCCCTCGTTGTGCATCCGAAAGTTCT
 CCCCCAAGAGGAAGTGTTCGTCTTCGATTGCCCGCTTAAGAGTACCTTGCTCACCTA
 GAGCACCTAAGGGAGGAGAGCTGACCCCTGTATTTCATAAACAGTTGCAGAATTTTGTTC
 TACATCCTCACCCCTTCCAATGTGATCT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004120 unedited AAAGCTAGGGATACTCCTCTTTTTTCCGCTGCCTACAAGTACACTTGGCAGGAGTGATGC TCTACTGTGCCCCAGGTTTGGTCTCATCACATTTTCATCATATTCACAACACTTCA GCCCTATGCTACGACCATAGTTAAATCCCTGAATAAGAGTATAGGACTGAATATACAGTA AGGGTGGTGCATATGAGCAGAAAAAATCTACCCAGAACAGAACTGCAAGATATCTCAT TGGAAAATGCATCCTAGTTACACAATATCTCTCTTGAGTCCTTGTGTATGATTTCAAATA TAGGATTTAGTTAAAGATCATATTTAAAGTTAGTACTATAAATAAGCATGAGTTGAATTG CTCTGTAGGTAAAACATTGACCTCATACTTAACCTTTACTTTGCAAACCTTTATGGTTCAA CAAAAATGCATGCATCATGATTTTGAGTTAAGTTAATGGCAGTTGTTTGACACTCTGAA GTTGCTCATTGTTGTTTCTTGGGGAGAGGGAGCTGGACAGGCAAATTTTGCTCCTTG GACTTTTAGAGTATGTTACATATTGGCTCCAATGATTTGCTTCTCATCTGGATATCCCAT ATGTCTTTTTGAAGTCTCTTGTCTCATTCTCGAATCCCTCCTTGAGAAGGCGTCTCTGT TCCTGAAGTTAAAGAGCGAGGGTCTTCTTGTCTGCCATTAACCTGGGCCCTGGTCCC TCTGCATCTGGTCAGTCAATTGTTTACATGTTCTCTGATAACTCTTCTTTTTTGTCCA TCATCTCCTAATTCTTCTTTTGTATTTCTACCAACATTTCTTTGCAGCTCTGCAGATTC AGCCTTTATACGTTCCACTTAATACGCCTTTTCCTTTCTGAGAGGGACCTGACAACCTGT AGAATGCATAAACACATTCTCT
Restriction Sites:	NotI-NotI
ACCN:	NM_004120
Insert Size:	2500 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).
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_004120.3</u> , <u>NP_004111.2</u>
RefSeq Size:	2595 bp
RefSeq ORF:	1776 bp
Locus ID:	2634
UniProt ID:	<u>P32456</u>
Cytogenetics:	1p22.2
Domains:	GBP

Gene Summary:

This gene belongs to the guanine-binding protein (GBP) family, which includes interferon-induced proteins that can bind to guanine nucleotides (GMP, GDP and GTP). The encoded protein is a GTPase which hydrolyzes GTP, predominantly to GDP. The protein may play a role as a marker of squamous cell carcinomas. [provided by RefSeq, Jul 2013]