

Product datasheet for **SC117482**

GTPBP1 (NM_004286) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTPBP1 (NM_004286) Human Untagged Clone
Tag:	Tag Free
Symbol:	GTPBP1
Synonyms:	GP-1; GP1; HSPC018
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_004286, the custom clone sequence may differ by one or more nucleotides

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ATGGCGACGGAGCGCAGTCGCTCCGCGATGGACTCGCCGGTCCCAGCCTCTATGTTCCGCCCCGAGCCCA
GCTCCCCGGGGCGGCCAGGGCCGCGCGCCGCGCCGCGCCGACTCCACGGCGGCTTTGACTCGGACTGCAG
CGAGGACGGCGAGGCGCTCAACGGCGAGCCAGACTGGACCTCACCAGCAAGCTGGTTCTAGTGAGCCCT
ACATCAGAGCAGTATGACAGCCTACTTCGGCAGATGTGGGAGAGGATGGACGAGGGATGCGGAGAGACCA
TATATGTCATTGGGCAGGGATCAGATGGGACTGAGTATGGGCTGAGTGAAGCTGACATGGAGGCCTCCTA
CGCCACAGTGAAGAGCATGGCGGAACAGATAGAGGCCGATGTCATCCTTCTGCGGGAACGGCAAGAAGCT
GGGGGCCGCGTGCCTGATTACCTGGTCCGGAACGAGTAGGAGACAATGACTTCTGGAGGTGAGGGTAG
CAGTGGTGGGCAACGTGGATGCTGGCAAAGCAGCCTTCTGGGGTCTGACACATGGGGAGCTGGACAA
TGGCCGAGGCTTTGCCCGCCAGAACTCTCCGCCACAAACATGAAATTTGAATCTGGTGCACCAGCAGT
GTGGGCAACGACATTCTGGGCTTTGACAGTGAAGGCAATGTAGTGAACAAGCCTGACAGCCACGGCGGCA
GCCTGGAGTGGACCAAGATCTGTGAGAAGTCCACGAAAGTCATTACCTTCATCGACTTGGCTGGTATGA
GAAGTACCTGAAAACCACTGTCTTCGGCATGACAGGCCATCTGCCTGACTTCTGCATGCTCATGGTGGGC
AGCAATGCTGGCATCGTGGGGATGACCAAAGAACCTGGGCTTGGCACTGGCACTCAATGTACCTGTCT
TTGTGGTAGTACCAAGATTGACATGTGTCTGCCAACATCCTGCAAGAAACCTGAAGCTGTTACAGCG
CCTGCTGAAGTACCAGGCTGCCGAAGATCCCCGTGCTGGTGCAGAGCAAAGATGATGTGATTGTCACA
GCCTCAAACCTCAGCTCTGAAAGGATGTGCCGATATCCAGATCTCAAACGTTACAGGCGAGAACCTAG
ATCTGTGAAGATGTTCCCTCAACCTCCTCTCCCCCGCACCAGCTACAGGGAGGAGGAGCCTGCTGAGTT
TCAGATTGATGACACCTACTCCGTCCCGGTGTGGGACAGTGGTTTTCGGGGACAACACTGAGAGGCCTG
ATCAAGCTGAATGACACGCTGCTGTGGGCCAGACCCCTTGGTAACTTCTGTCCATTGCTGTCAAAT
CCATCCATCGCAAGCGCATGCCTGTCAAGGAGGTGCGGGGTGGCCAGACAGCATCCTTTGCGCTGAAGAA
GATCAAGCGCTCGTCCATCCGGAAGGGCATGGTATGGTTTTCCACGTTTGAATCCCAAGCCTCCTGG
GAGTTTGAAGCCGAGATTCTCGTCTCCACCACCCACCACAATTAGCCCGCGCTACCAGGCCATGGTGC
ACTGTGGGAGCATCAGGCAGACAGCCACCTTCTGAGCATGGACAAGGACTGTCTGCGCACTGGGGACAA
GGCCACTGTACACTTCCGCTTCAAGACCCCTGAGTACCTGCACATAGACCAGCGGCTGGTGTCCGG
GAAGGCCCGACCAAGGCTGTCCGCCACCATACCAAGCTCCTCCAGACCACCAACAACCTCCCAATGAACT
CCAAGCCCGACGAGATTTAAATGCAGTCGACGAAAAAGGGCCCCCTGACGAAACGAGACGAGGGGGGCC
GTCTGGTGGGCCAGCAGTAGGAGCACCCACCTGGAGATGAAGCCTCCTCTGTAGGGGCAGGGCAACCA
GCTGCGTCCAGCAATCTCAGCCTCAGCCTAAGCCAGCAGTGGAGGCCGCGACGAGGGGGCCAGCGCC
ACAAGGTGAAGTCCCAGGGGGCCTGTGTGACTCCTGCCAGCGGCTGCTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004286 unedited

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GGTGGCGCAATTATGGAACACGCATTTCACTATAGNNGCGCGCCGCAATTCGGCAC
GAGGCGACGGAGCGCAGTCGCTCCGCGATGGACTCGCCGGTCCCAGCCTCTATGTTCCGCC
CCCGAGCCAGCTCCCCGGGGCGGCCAGGGCCGCGCGCCGCGCCGCGCCGACTCCACGGC
GGCTTTGACTCGGACTGCAGCGAGGACGGCGAGGCGCTCAATTTTTTAGCCAGAGCTGGA
CCTCACCAGCAAGCTGGTTCTAGTGAGCCCTACATCAGAGCAGTATGACAGCCTACTTCG
GCAGATGTGGGAGAGGATGGACGAGGGATGCGGAGAGACCATATATGTCATTGGGAGGG
ATCAGATGGGACTGAGTATGGGCTGAGTGAAGCTGACATGGAGGCCTCCTACGCCACAGT
GAAGAGCATGGCGGAACAGATAGAGGCCGATGTCATCCTTCTGCGGGAACGGCAAGAAGC
TGGGGGCCGCGTGCCTGATTACCTGGTCCGGAACGAGTAGGAGACAATGACTTCTGGA
GGTCAGGGTAGCAGTGGTGGGCAACGTGGATGCCGGCCAAAGCAGCCTTCTGGGGTCTCT
GACCCATGGGGAGCTGGACAATGGGCCGAGGCTTTGCCCGCCAGAAACCTCTTCCCGCCC
CAACCATGCAAATTGAATCCTGGCCGACCAGCAGCGTGGGCCACCGACATTCTGGGCTT
TGACAGTGAACGCAATGTTGTGAACAAGCCTGAAGGCCCGCGGTGCGCCTGCAGGGGAC
ACAGAATCTTGAGAAAGCCCCAAGTCCTTACCCTCACCACCTGGCTGGCCCTGAAAAAC
CCCCGAAGACCTGGTTTTGCGATGACAGGCATTTGCTTACTTCCGACGCCCCATGGT
GGGACAAAATCCTCGGTCCCAGGAGAATCN
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004286 unedited AAAANTTACTNTGNNCCCACGGNCCCGCATTTTANGATCGNGTTTTTTTTTTTTTTTTTTTT AACTTGGNAACAAACTTTTATTTTNGATGCTGGTCTGATCAGTCCACGGCCAGGGGTAGG TGGTAAC TAGAAACAGCTGGAAGGAGGGAAGGAGAGGGGACCAGCAGTCCGCAAGCAGGA GGAAAGGAAAGGGTTGGGGACAGGAGGCAAGGCTGAGGAAGGACCCAGCCAGCTGGG TGTCTGCCCGGCTAGAGAACGAACCACCCACCCACCCAGCCTACCCTCCATCTGTGGC TTCAGTGCAGAAAGTCCAGTCCAGGTGGGTTTCAGGCCCATGCCACCTTCTCTGGCCTGCACA GTCCACCCAGGCAGGGGTTCTTCCAGAAGGCTAAATGCTCTGTCCCTAACCCCTGGAAGT GTCCTTTCACTAACCCTGCCTGCCCGCCACGCTCCAGTTGGGTCTTTCAAACCTGGA GCTCAGGCCTTCACTACTGTGCTCCTGTAGCAGCCACAGGGGTGGCGTGGTGGGAAAAAT GGGGTTCTAGTCTCANCCTGGCTCAGGGAGATGGGGTTTAGTCTCACCCCTGGCTCAGGG GAACATTCTTCCACCCCTCCACAGGTAGTGTACAAAAATGATCTTGTACAGACCCAGA CCCCCTTTTTGTACCAATGGCCTGATGGCCATCCGCAACTGTGTTTCATGTCAGCTC TCTCCCCGCCCTACTACCAAATTCGAGGCCCTCCCCCCCCGTCCTCTCATCT CCCCGCATCCTCTTTCAGGGGCCAACCCCTCCACCTCGTTTTTCGGCTCCCTGTAACCGCT TTCTTCCCCCTTCTCATATTCTCCTTCCCTTCTCCCTTGCCTTTTTTCCCCC CTCCCCTCCTTCTTTCACCTTACCTTTTTTCTCGTCT
Restriction Sites:	NotI-NotI
ACCN:	NM_004286
Insert Size:	3950 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_004286.3</u> , <u>NP_004277.1</u>
RefSeq Size:	5074 bp
RefSeq ORF:	1755 bp
Locus ID:	9567
UniProt ID:	<u>O00178</u>
Cytogenetics:	22q13.1
Domains:	GTP_EFTU, GTP_EFTU_D3, GTP_EFTU_D2

Gene Summary:

This gene is upregulated by interferon-gamma and encodes a protein that is a member of the AGP11/GTPBP1 family of GTP-binding proteins. A structurally similar protein has been found in mouse, where disruption of the gene for that protein had no observable phenotype. [provided by RefSeq, Jul 2008]