

## Product datasheet for SC118720

### GTPBP5 (MTG2) (NM\_015666) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GTPBP5 (MTG2) (NM_015666) Human Untagged Clone
Tag:	Tag Free
Symbol:	GTPBP5
Synonyms:	dj1005F21.2; GTPBP5; ObgH1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118720 sequence for NM_015666 edited (data generated by NextGen Sequencing)

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ATGGCACCTGCAAGGTGTTTTTCAGCAAGATTGAGGACCGTGTTCAGGGCGTGGGGCAT
TGGGCTTTGTCCACATGGGCTGGCCTGAAGCCAGCCGGCTACTGCCACAGCGGGCTTCT
CCCAGGCTGCTCTCGGTGGCCGTGCGGACCTCGCCAAGCATCAGGAACTCCCGGGAAAG
AAGCTGCTCTCTGAGAAAAAGCTGAAAAGGTACTTTGTGGACTATCGGAGAGTGCTTGTC
TGTGGAGGAAACGGAGGCGCTGGGGCAAGCTGCTTCCACAGTGAGCCCCGCAAGGAGTTT
GGAGGCCCTGATGGAGGGGACGGAGGCAACGGTGGACACGTCATTCTGAGAGTTGACCAG
CAAGTCAAGTCCCTGTCGTCGGTCTGTCGCGGTACCAGGGTTTCAGTGGAGAAGATGGA
GGGAGTAAAAACTGCTTCGGGCGCAGTGGCGCCGTCCTTACATCCGGTCCCCGTGGG
ACGCTGGTGAAGGAGGGAGGCAGAGTTGTGGCCGACCTGTCTTGGTGGGAGATGAGTAC
ATTGCCGCGCTGGGCGGGCAGGAGGAAAGGCAACCGCTTCTTCTGGCCAACAACAAC
CGTGCCCCCTGTGACCTGTACCCCTGGACAGCCAGGACAGCAGCGAGTTCTCCACCTGGAG
CTCAAGACGGTGGCCACGCCGGAATGGTGGGATCCCCAACGCCGGGAAGTCTCACTG
CTCCGGGCCATTTCAAACGCCAGACCCGCCGTGGCTTCTACCCGTTCCACCCTGAAG
CCCCACGTCGGGATCGTCCACTACGAAGGCCACCTACAAATAGCAGTGGCCGACATCCCC
GGCATCATACGAGGCGCCACCAGAACAGGGGTCTGGGGTCCGCCTTCTCAGGCACATC
GAGCGCTGCCGCTTTCTTTGTTGTCGTGGTGGATCTTTCTCAGCCTGAGCCGTGGACTCAA
GTTGACGATTTAAAATATGAACTGGAGATGTATGAAAAGGGCCTGTCTGCGAGGCCCCAC
GCAATCGTCGCAACAAGATTGACCTCCCTGAAGCCCAAGCCAATCTGTCCAGCTCCGG
GATCACTTGGGACAGGAGTTCATCGTGCTGTCGCGGTTGACCGGCGAGAACCCTGGAGCAG
CTGCTGTTGCACCTGAAGGTGCTGTATGACGCTACGCGGAGGCCGAGCTGGGCCAGGGC
CGCCAGCCGCTCAGGTGGTAG

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Clone variation with respect to NM\_015666.3  
21 c=>t



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_015666 unedited            TTTGTATACGACTCACTATAGGCGGCCCGGATTTCGGCACGAGGGTGCTTTCCCGAGCCG            GGGCCATGGCACCTGCAAGGTGTTTTTCAGCAAGATTGAGGACCGTGTTCAGGGCGTGG            GGCATTGGGCTTTGTCCACATGGGCTGGCCTGAAGCCCAGCCGGCTACTGCCACAGCGGG            CTTCTCCCATGCTGCTCTCGGTCGGCCGTGCGGACCTCGCCAAGCATCAGGAACTCCCGG            GGAAGAAGCTGCTCTCTGAGAAAAAGCTGAAAAGTACTTTGTGGACTATCGGAGAGTGC            TTGTCTGTGGAGAAAACGAGGGCGCTGGGGCAAGCTGCTCCACAGTGAGCCCCGCAAGG            AGTTTGGAGGCCCTGATGGAGGGGACGGAGGCAACGGTGGACACGTCATTCTGAGAGTTG            ACCAGCAAGTCAAGTCCCTGTCGTCGGTCTGTCGCGGTACCAGGGTTTCAAGTGGAGAAG            ATGGAGGGAGTAAAAACTGCTTCGGGCGCAGTGGCGCCGTCTCTACATCCGGGTCCCGG            TGGGCACGCTGGTGAAGGAGGGAGGCAGAGTTGTGGCCGACCTGTCTTGCCTGGGAGATG            ACTACATTGCCGCGTGGGCGGNGCATGAGGGAAAGGCAACCGCTTCTTCTGGCCAACG            ACAACCGTGCCCTGTGACCTGTACCCCTGGACAGCCAGGACAGCAACGAGTTCTNCACC            TGNAGCTCAAGACGGTGGCCCCACGCCAATGGTGGGGATCCCCACGCCGGGAAGTCTCT            CACTGCTCCGGGCCATTTCAAACGCAGACCCGNNCGTGTTCCTACCCGTTACACCACCT            GAAGCCCACGTGGGGATCGTCCACTCGAAGGCCACTACAATAGCAGTGGGCGACATCCCC            GCATATACCAGCCCCACAAACAGGGTTT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_015666 unedited            NAAAAAAAAAAAAAAAAAAAAACNNNTTTTTTTTTGACTTAGNACGCGCCGCATCTGAGA            TCGTTTTTTTTTTTTTTTTTTTTGGCCACAAGGCACTTTTATGCTTCAAACCACCGCATT            CACATCCAGTTTGTCTCAGCACAGAGCCCAGAGGCGACCCCGCTCTGGCGTGGCTACCAC            CTGAGCGGCTGGCGGCCCTGGCCAGCTCGGCCTCCGCGTAGGCGTCATACAGCACCTTC            AGGTGCAACAGCAGCTGCTCCAGTTCTCGCCGTC AACGCCACAGCAGATGACCTCC            TGTCCTCAAGTATCCCGGAGCTGGGACAGATTGGCTTGGGCTTACAGGAGGTCAATCTTG            TTTGCGACGATTGCGTGGGGCCTCGCAGACAGGCCCTTTTCATACATCTCCAGTTCATAT            TTTAAATCGTCAACTTGAGTCCACGGCTCAGGCTGAGAAAGATCCACCACGAACAAGAGA            AAGCGGCAGCGCTCGATGTCCTGCAGAAGGCGGACCCACAGCCCTGTTCTGGTGGGCG            CCTCGTATGATGCCGGGGATGTCGGCCACTGCTATTTGTAGGTGGCTTCGTAATGGACG            ATCCCCACGTGGGGCTTCAGGGTGGTGAACGGGTAGGAAGCCCGCGGGTCTGGCGTTTG            AAATGGCCCGGGACAATGAGGACTTTCCCGCGGTGGGGGAATCCACCATTCCCGCGTG            GGCCACCGTTTTGAGCTTCAGGTGGAGAACTCGCTGTTGTCTGCTGCTCCAGGGGTAC            AGGTACAGGGGGCCCGTTGTTGTTGGCCAGAAANAACGGGTGCCTTTACCTTCTGCC            CCGCCAGGGGGAAAGGAACCTATTTTCCCCCATGACAGGTTGGCCCCAATTTTGCTT            CCTCCTAACCAACGTGCCCCACGGGGCCCCGTTGTTAAGGG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_015666
<b>Insert Size:</b>	1430 bp
<b>OTI Disclaimer:</b>	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).
<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).

**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\\_015666.2](#), [NP\\_056481.1](#)

**RefSeq Size:** 3085 bp

**RefSeq ORF:** 1221 bp

**Locus ID:** 26164

**UniProt ID:** [Q9H4K7](#)

**Cytogenetics:** 20q13.33

**Domains:** GTP1\_OBG

**Gene Summary:** Small G proteins, such as GTPBP5, act as molecular switches that play crucial roles in the regulation of fundamental cellular processes such as protein synthesis, nuclear transport, membrane trafficking, and signal transduction (Hirano et al., 2006 [PubMed 17054726]). [supplied by OMIM, Mar 2008]