

## Product datasheet for **SC323991**

### **GTPBP4 (NM\_012341) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GTPBP4 (NM_012341) Human Untagged Clone
Tag:	Tag Free
Symbol:	GTPBP4
Synonyms:	CRFG; NGB; NOG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_012341.2  
 GGACGCGTGGGCGCGTGCATACGGCTGCCGGCATGGCACATTACAACTTCAAGAAAATTA  
 CCGTGGTGCCGTCGCAAGGACTTCATAGACCTCACGTTGTGCGAAGACTCAACGAAAGA  
 CTCCAACCGTTATTCATAAAACATTACCAAATACATCGCATTAGACATTTTACATGAGAA  
 AAGTCAAATTTACTCAACAGAATTACCATGATAGACTTTACAAAATTTAACAGATTTCC  
 CCAAATTTGGATGATATTCATCCGTTCTATGCTGATTTGATGAATATTCTCTACGACAAGG  
 ATCATTACAAGTTGGCTCTGGGGCAAATAAATATTGCCAAAAATTTAGTGGACAATGTTG  
 CTAAAGATTATGTGCGACTGATGAAGTATGGCGACTCTCTCTACCGCTGCAAAACAGCTGA  
 AGCGTGGCGCCCTGGGACGGATGTGCACAGTGATCAAGAGGCAGAAGCAGAGTTTGGAGT  
 ATTTGGAGCAAGTGCGTCAGCATTTATCCCGTTTGCCAACCATTGATCCGAATACCAGGA  
 CCCTGCTTTTGTGGGTACCAAAATGTTGGGAAGTCCAGCTTCATCAACAAGGTGACGA  
 GAGCAGACGTGGATGTCCAGCCCTATGCGTTCACAACCAAGTCTCTGTTTGTGGGCACA  
 TGGATTAAAGTATCTACGTTGGCAGGTTGTAGACTCTGGGATCCTGGACCACCTC  
 TGGAGGATAGGAACCCATCGAGATGCAGGCCATCACTGCCCTGGCCACCTCCGTGCTG  
 CAGTCTGTATGTGATGGATTTGTCTGAGCAGTGTGGGCATGGGCTGAGGGAGCAGCTAG  
 AACTCTTCCAGAACATCAGACCTCTCTTATCAACAAGCCTCTCATAGTTGTAGCCAACA  
 AATGTGATGTGAAGAGAATAGCTGAACCTTCTGAAGATGATCAGAAAATATTTACAGATT  
 TGCAGTCTGAAGGATTCCTGTAATAGAGACCAGCACCTGACTGAGGAAGGTGTTATTA  
 AAGTTAAAACAGAGGCTTGCATAGGCTTTTGGCTCATCGAGTGGAAACCAAAATGAAGG  
 GAAATAAAGTGAATGAGGTGCTGAATAGACTGCACCTGGCTATCCAACCAAGGAGGGACG  
 ATAAGGAGAGGCCCTTTCATCCCTGAAGGAGTGGTGGCTCGCAGGAAGAGGATGGAAA  
 CTGAGGAGTCCAGGAAGAAGAGGGAACGAGATCTTGAGCTGAAAATGGGAGATGATTATA  
 TTTTGGATCTTCAGAAGTACTGGGATTTAATGAATTTGTCTGAAAAACATGATAAGATA  
 CAGAAATCTGGGAAGGCCATAATATAGCTGATTATATTGATCCAGCCATCATGAAGAAAT  
 TGAAGAATTAGAAAAAGAAAGAGCTGAGAACAGCTGCTGGAGAGTATGACAGTGTAT  
 CTGAGAGTGAAGACGAAGAGATGCTGGAATCCGACAGCTGGCAAAGCAAATTCGAGAGA  
 AAAAGAAGTTGAAAATTCGGAGTCCAAAGAAAAGAATACACAGGGACCCAGGATGCCGC  
 GAACTGCTAAGAAGTTTCAGAGGACAGTTTTGGAGAAGGAGATGCGTAGTCTTGGTGTG  
 ACATGGACGATAAAGACGATGCCATTACGCAGTCCAGGCAAGAAGATCCCGGAGCATCA  
 CTAGGAAAAGAAAGCGGGAAGACTCTGCTCCCCGTCCTCTGTGGCCCGGAGTGGGAGTT  
 GCTCTCGAACTCCACGTGACGTTTTCTGGTCTTAGGGATGTCAAGATGGTGAAGAAAGCCA  
 AGACTATGATGAAGAATGCTCAGAAGAAGTGAATCGGTTGGGGAAGAAAGGGGAGGCGG  
 ATAGACACGTGTTTATGATGAAGCCCAAGCACTTGTCTGTCTGGGAAGAGGAAAGCTGGTA  
 AAAAGGACAGGAGATAGTATCCGTTTGGTGGCGTGGCTTCGCTAGAGTGTGCTGTTTA  
 TTTCTGGTTTGGCACAGTATGGTTTCATGAAATTTGGAGCTCTGTATAAACTGAAAAAGA  
 CAAAATAAGTAAAGCACTTGTGCTTTGCTGAAAACATGTTTAAACCCTATATAGGTGTG  
 GGAATTTTTGCTACTGCATAATATTACAAATATTTGAGTAGACAGTGTTCACATTT  
 AATGGAGTATCAGTTGCTTCAGATTTTCAGAACTGGGAAGATTTACTGGTGAACGTTG  
 TGTTTTGTGATGGAGAAAAACCTTATTTTCTTTTGTAAAGAGCTGGGAGCAACACGTTTAT  
 GAGTGTGTCGGAATCCCGTGTAAATACGCTCTTAAATATTTTCTAGTCTTATTTTA  
 CAATGTCTCATTGTAGTCTGTCTCAACTATTTTATCCAAAATAAACCTCCAGAAGAAAG  
 TAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_012341

**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).

<b>OTI Annotation:</b>	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.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_012341.2</a> , <a href="#">NP_036473.2</a>
<b>RefSeq Size:</b>	2537 bp
<b>RefSeq ORF:</b>	1905 bp
<b>Locus ID:</b>	23560
<b>UniProt ID:</b>	<a href="#">Q9BZE4</a>
<b>Cytogenetics:</b>	10p15.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	GTP-binding proteins are GTPases and function as molecular switches that can flip between two states: active, when GTP is bound, and inactive, when GDP is bound. 'Active' in this context usually means that the molecule acts as a signal to trigger other events in the cell. When an extracellular ligand binds to a G-protein-linked receptor, the receptor changes its conformation and switches on the trimeric G proteins that associate with it by causing them to eject their GDP and replace it with GTP. The switch is turned off when the G protein hydrolyzes its own bound GTP, converting it back to GDP. But before that occurs, the active protein has an opportunity to diffuse away from the receptor and deliver its message for a prolonged period to its downstream target. [provided by RefSeq, Jul 2008]