

Product datasheet for **SC115395**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115395 sequence for NM_012341 edited (data generated by NextGen Sequencing)

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ATGGCACATTACAACCTCAAGAAAATTACGGTGGTGCCGTCGCCCAAGGACTTCATAGAC
CTCACGTTGTGCGAAGACTCAACGAAAGACTCCAACCGTTATTCATAAACATTACCAAATA
CATCGCATTAGACATTTTACATGAGAAAAGTCAAATTTACTCAACAGAATTACCATGAT
AGACTTTCACAAATTCTAACAGATTTCCCAAAATGGATGATTCATCCGTTCTATGCT
GATTTGATGAATATTCTCTACGACAAGGATCATTACAAGTTGGCTCTGGGGCAAATAAAT
ATTGCCAAAAATTTAGTGGACAATGTTGCTAAAGATTATGTGCGACTGATGAAGTATGGC
GACTCTCTCTACCGCTGCAAACAGCTGAAGCGTGCGGCCCTGGGACGGATGTGCACAGTG
ATCAAGAGGCAGAAGCAGAGTTTGGAGTATTTGGAGCAAGTGCCTCAGCATTATCCCGT
TTGCCAACATTGATCCGAATACCAGGACCCTGCTTTTGTGGGTACCCAAATGTTGGG
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GACTCTCTGGGATCCTGGACCACCTCTGGAGGATAGGAACACCATCGAGATGCAGGCC
ATCACTGCCCTGGCCACCTCCGTGCTGCGGTCTGTATGTGATGGATTTGTCTGAGCAG
TGTGGGCATGGGCTGAGGGAGCAGCTAGAATCTTCCAGAACATCAGACCTCTCTTCATC
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GAAGATGATCAGAAAATATTTACAGATTTGCAGTCTGAAGGATCCCTGTAAATAGAGACC
AGCACCTGACTGAGGAAGGTGTTATTAAGTTAAAACAGAGGCTTGGCATAGGCTTTTG
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AAGAATACACAGGGACCCAGGATGCCGCGAACTGCTAAGAAGTTTCAAGGACAGTTTTG
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GTCCAGGCAAGAAGATCCCGGAGCATCACTAGGAAAAGAAAGCGGGAAGACTCTGCTCCC
CCGTCCTCTGTGGCCCGGAGTGGGAGTTGCTCTCGAACTCCACGTGACGTTTCTGGTCTT
AGGGATGTCAAGATGGTGAAGAAAGCCAAGACTATGATGAAGAATGCTCAGAAGAAGATG
AATCGGTTGGGGAAGAAAGGGGAGGCGGATAGACACGTGTTTGTATGAAGCCCAAGCAC
TTGCTGTCTGGGAAGAGGAAAGCTGGTAAAAAGGACAGGAGATAG
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Clone variation with respect to NM_012341.2
1108 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012341 unedited
 GGTTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGCCAAGTAC
 CCGCGTGCATACGGTGCCGGCATGGCACATTACAACCTCAAGAAAATTACGGTGGTGCC
 GTCCGCCAAGGACTTCATAGACCTCACGTTGTGCGAAGACTCAACGAAAGACTCCAACCGT
 TATTCATAAACATTACCAAATACATCGCATTAGACATTTTACATGAGAAAAGTCAAATT
 TACTCAACAGAATTACCATGATAGACTTTCACAAATTCTAACAGATTTCCCAAAATTGGA
 TGATATTCATCCGTTCTATGCTGATTTGATGAATATTCTCTACGACAAGGATCATTACAA
 GTTGGCTCTGGGGCAAATAAATATTGCCAAAAATTTAGTGGACAATGTTGCTAAAGATTA
 TGTGCGACTGATGAAGTATGGCGACTCTCTACCCTGCAAACAGCTGAAGCGTGCGGC
 CCTGGGACGGATGTGCACAGTGATCAAGAGGCAGAAGCAGAGTTTGGAGTATTTGGAGCA
 AGTGCCTCAGCATTTATCCCGTTTGCCAACCATTTGATCCGAATACCAGGACCCTGCTTTT
 GTGTGGGTACCAAAATGTTGGGAAGTCCAGCTTCATCAACAAGGTGACGAGAGCAGACGT
 GGATGTCCAGCCCTATGCGTTTACAACCAAGTCTCTGTTTGTGGGCACATGGATTATAA
 GTATCTACGTTGGCAGGTTGTAGACTCCTGGGATCCTGGACCACCCTCTGGAGGATAG
 GAACACCATCGAGATGCAGGCCATCACTGCCCTGCCCCANCTNCGTGCTGCGGCTCTGTA
 TGTGATGGATTTGCTGANCAAGTGTGGCATGGGCTGAGGNAGCAGCTANAACCTCTCCA
 GAACATCAGACCTCTCTCAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012341 unedited
 CCATCTTGNC CGCGCCGATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTAAATGAAAA
 CTACTTTCTTCTGGGGTTTATTTTGGATAAAAATAGTTGAAGACAGACTACAATGAGACA
 TTGTAATAAAGACTAGAAAATAATTTAAGAGCGTATTTTAAGCACGGGATTCGACACA
 CTCATAAACGTTGTTGCTCCAGCTTTACAAAAGAAAATAAGGTTTTTCTCCATCAAAA
 ACAACCCAGTTACACCAGTAAATCTTCCAGTTCTGAAAATCTGAAGCAACTGATACTCC
 ATTAATGTGGAAACACTGTCTACTCAAAATATTTGTAATATTATGCAGTGACAAAAATT
 TCCCACACCTATATAGGGTTAACCATAGTTTTTCCAGCAAAGCAACAAGTGCTTTACTTATT
 TTGTCTTTTTTTCAGTTTATACAGAGCTCCAATTTTCAAGAACATACTGTGCCAAACCAGG
 AAATAAACAGCAACACTTAGCGAAGCCACGCCAACCAACCGGATACTATCTCCTGTCTCT
 TTTTACCAGCTTTCTCTTCCCAACAGCAAGTGCTTGGGCTTCATATCAAACACGTGTCT
 ATCCGCTNCCCTTTCTTCCCAACCGATTCTCTTCTGAGCATTCTCATCATAGT
 CTGGCTTTTTCTACCCATCTGACATCCCCTAAGACANAACGTCACGTTGGAGTTCGAG
 AGCAACTCCCCTTCCGGCCACANAAGACAGGGGAGCAGAAATCTCCCGTTTTTTTTTTC
 TAAGGATGCTCGGGATCTTCTGCCTGGACTGCGTAAGGGCATTCTTTATAGGCCTGGTA
 AAACCAGAATACCATTTCTTTTCAAAAATGTCTTTGAACTTTTAAAGTTCCCGGGATCG
 GGGCCCTGGGATTTTTCTTTGGACACCAATTCAACCTTTTTTTTTTTTT

Restriction Sites:

ECoRI-NOT

ACCN:

NM_012341

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:	NM_012341.2 , NP_036473.2
RefSeq Size:	2537 bp
RefSeq ORF:	1905 bp
Locus ID:	23560
UniProt ID:	Q9BZE4
Cytogenetics:	10p15.3
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p>