

Product datasheet for **SC100992**

GTPBP10 (NM_033107) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTPBP10 (NM_033107) Human Untagged Clone
Tag:	Tag Free
Symbol:	GTPBP10
Synonyms:	ObgH2; UG0751c10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_033107, the custom clone sequence may differ by one or more nucleotides

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ATGGTGCATTGCAGTTGCGTGTTGTTTCAGAAAGTATGGAAATTTTCATCGATAAGCTAAGACTCTTCACCA
GGGGAGGATCCGGTGGAATGGGTTATCCTCGTTTAGGTGGAGAAGGTGGAAAAGGTGGTATGTCTGGGT
TGTAAGCCAGAACAGAATGACTTTAAACAACCTAAAGACAGGTATCCTCGGAAACGGTTTGTGGCTGGA
GTAGGAGCAAACAGCAAAATTAGTGCAGTGAAGGCTCCAAAGGAAAAGACTGTGAAATCCCTGTGCCTG
TGGGTATTTAGTAAGTATGAAATGGTAAATATAGGAGAACTCAATAAGAAAATGACAGAATTTT
GGTAGCTCAAGGAGGTCTTGGTGGTAAATTAATAAATTTCTTACCATTGAAAGGCCAGAAACGAATA
ATTCACCTTGATCTAAACTTATAGCTGATGTAGGCCTAGTAGGATTCCCAAATGCTGGAAAATCCTCTT
TGCTAAGTTGTGTTTCTCATGCAAAACCTGCAATTGCAGATTACGCATTTACAACATTAAAGCCTGAACT
TGGAAAGATAATGTACAGTGATTTCAAACAGATATCAGTAGCTGATCTCCGGGTTTAAATAGAAGGAGCA
CATATGAACAAAGGAATGGGCCACAAATTCCTCAAGCATATAGAAAGAACTAGACAACTACTTTTTGTTG
TTGATATTTCTGGATTTTCTTCTCAGCTTCTTCTCAGCTCAATACAGGACAGCTTTTGAACCATAACTGCT
TACAAAAGAGTTGGAATTGTACAAAGAGGAACTTCAGACAAAACCTGCACTCTTGGCAGTTAATAAAATG
GACTTGCCAGATGCCAAGATAAGTTCCATGAATTGATGAGCCAGCTCCAGAATCCTAAAGATTTTCTGC
ATTTATTTGAAAAAACATGATTCCAGAGAGGACTGTAGAGTTTCAACATATCATCCCCATATCTGCAGT
TACTGGAGAAGGAATCGAAGAATTAAAGAATTGTATAAGAAAGTCACTGGATGAACAGGCCAACCCAGGAA
AATGATGCACTTCATAAGAAACAGTTGCTTAATTTGTGGATTTCTGATACAATGTCTTCTACTGAGCCAC
CATCAAAGCATGCTGTTACTACTTCCAAATGGATATAATTTAA
  
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_033107 unedited <pre>GGTGCACATTTGTATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGGCAAGAAGGT TTCCTGGCCTGTTGCAGCCATGGTGCATTGCAGTTGCGTGTGTTTCAGAAAGTATGGAAA TTTCATCGATAAGCTAAGACTCTTCACCAGGGGAGGATCCGGTGGAAATGGGTTATCCTCG TTTAGTGGAGAAGGTGGAAAAGGTGGTGATGTCTGGGTTGTAGCCAGAACAGAATGAC TTTAAAAACAACCTTAAAGACAGGTATCCTCGGAAACGGTTTGTGGCTGGAGTAGGAGCAAA CAGCAAAATTAGTGCAGTGAAGGCTCCAAAGGAAAAGACTGGGAAATCCCTGTGCCTGT GGGTATTTTCAGTAACTGATGAAAATGGTAAAATTATAGGAGAAGTCAAGTAAAGAAAATGA CAGAATTTTGGTAGCTCAAGGAGGTCTTGGTGGTAAATTACTTACAAATTTCTTACCATT GAAAGGCCAGAAACGAATAATTCACCTTGATCTAAAATTATAGCTGATGTAGGCCTAGT AGGATTCGCAATGCTGGAAAATCCTCTTTGCTAAGTTGTGTTTCTCATGCAAAACCTGC AATTGCAGATTACGCATTTACAACATTAAGCCTGAAGTGGAAAGATAATGTACAGTGA TTTCAACAGATATCAGTAGCTGATCTCCGGGTTTAATAGAAGGAGCACATATGAACAA AGGAATGGGCCACANATTCCTCAACATATAGAAAGACTAGACACTACTNTNNTGTGTGAT ATTTCTGGGATTAGCTTCTCTCACACTATACANGACAGCNTTTGAACCATATACTGC TACAAAAGAGTTGGATTGTACAAGNAGAACTTCAGACAAAAGTCACTCTTGGCATTAAAT AAAAGGACTTGCCAGAGCC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_033107
Insert Size:	3000 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:	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_033107.1</u> , <u>NP_149098.1</u>
RefSeq Size:	7550 bp
RefSeq ORF:	1164 bp
Locus ID:	85865
UniProt ID:	<u>A4D1E9</u>
Cytogenetics:	7q21.13
Domains:	GTP1_OBG

Gene Summary:

Small G proteins, such as GTPBP10, 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]

Transcript Variant: This variant (2) represents the longer transcript and it encodes the longer protein (isoform 2). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.