

Product datasheet for **RG215103**

GTPBP1 (NM_004286) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTPBP1 (NM_004286) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GTPBP1
Synonyms:	GP-1; GP1; HSPC018
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG215103 representing NM_004286
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGACGGAGCGCAGTCGCTCCGCGATGGACTCGCCGGTCCCGCCTCTATGTTCCGCCCCGAGCCCA
GCTCCCCGGGGCGGCCAGGGCCGCGCGGCCCGCCGCGGACTCCACGGCGGCTTTGACTCGGACTGCAG
CGAGGACGGCGAGGCGCTCAACGCGGAGCCAGAGCTGGACCTCACCAGCAAGCTGGTTCTAGTGAGCCCT
ACATCAGAGCAGTATGACAGCCTACTTCGCGAGATGTGGGAGAGGATGGACGAGGGATGCGGAGAGACCA
TATATGTCATTGGGCAGGGATCAGATGGGACTGAGTATGGGCTGAGTGAAGCTGACATGGAGGCCTCCTA
CGCCACAGTGAAGAGCATGGCGAACAGATAGAGGCCGATGTCATCCTTCTGCGGAAACGGCAAGAAGCT
GGGGGCCGCTGCGTGATTACCTGGTCCGGAACGAGTAGGAGACAATGACTTCTGGAGGTGAGGGTAG
CAGTGGTGGGCAACGTGGATGCTGGCAAAGCACGCTTCTGGGGTCTGACACATGGGAGCTGGACAA
TGCCCGAGGCTTTGCCCGCCAGAACTCTCCGCCACAAACATGAAATTGAATCTGGTCGCACCAGCAGT
GTGGGCAACGACATTCTGGGCTTTGACAGTGAAGCAATGTAGTGAACAAGCCTGACAGCCACGGCGGCA
GCCTGGAGTGGACCAAGATCTGTGAGAAGTCCACGAAAGTCAATACCTTCATCGACTTGGCTGGTATGA
GAAGTACCTGAAAACCACTGTCTTCGGCATGACAGGCCATCTGCCTGACTTCTGCATGCTCATGGTGGG
AGCAATGCTGGCATCGTGGGGATGACCAAAGAACACCTGGGCTTGGCACTGGCACTCAATGTACCTGTCT
TTGTGGTAGTCACCAAGATTGACATGTGCTCCTGCCAACATCCTGCAAGAAACCCCTGAAGCTGTTACAGCG
CCTGCTGAAGTACCAGGCTGCCGAAGATCCCCGTGCTGGTGCAGAGCAAAGATGATGTGATTGTCACA
GCCTCCAACCTCAGCTCTGAAAGGATGTGCCGATATCCAGATCTCCAACGTTACAGGCGAGAACCTAG
ATCTGCTGAAGATGTTCCCTCAACCTCCTCTCCCCCGCACCCAGCTACAGGGAGGAGGACCTGCTGAGTT
TCAGATTGATGACACCTACTCCGTCGCGGGTGTGGGGACAGTGGTTTCGGGGACAACACTGAGAGGCCTG
ATCAAGCTGAATGACACGCTGCTGCTGGGCCAGACCCCTTGGGTAACCTCCTGTCCATTGCTGTCAAAT
CCATCCATCGCAAGCGCATGCCTGTCAAGGAGGTGCGGGGTGGCCAGACAGCATCCTTTGCGCTGAAGAA
GATCAAGCGCTCGTCCATCCGGAAGGGCATGGTATGGTTTCCCCACGTTTGAATCCCCAAGCCTCCTGG
GAGTTTGAGGCCGAGATTCTCGTCTCCACCACCCACCACAATTAGCCCGCGCTACCAGGCCATGGTGC
ACTGTGGGAGCATCAGGCAGACAGCCACCATTCTGAGCATGGACAAGGACTGTCTGCGCACTGGGACAA
GGCCACTGTACACTTCCGCTTCATCAAGACCCCTGAGTACCTGCACATAGACCAGCGGCTGGTGTCCGG
GAAGGCCGACCAAGGCTGTCGGCACCATCAACAAGCTCCTCCAGACCACCAACAACCTCCCAATGAACT
CCAAGCCGAGCAGATTAATGCAAGTGCAGCAAAAAGGGCCCCCTGACGAAACGAGACGAGGGGGGCC
GTCTGGTGGGCCAGCAGTAGGAGCACCCACCTGGAGATGAAGCCTCCTCTGTAGGGGCAGGGCAACCA
GCTGCTCCAGCAATCTCCAGCCTCAGCCTAAGCCAGCAGTGGAGGCCGGCGACGAGGGGGCCAGCGCC
ACAAGGTGAAGTCCCAGGGGGCCTGTGTGACTCCTGCCAGCGGCTGC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG215103 representing NM_004286
Red=Cloning site Green=Tags(s)

MATERSRSAMDSPVPASMFAPPESSPGAARAAAAAARLHGGFSDDCSEGEALNGEPELDLTSKLVLVSP
TSEQYDSSLRQMWERMDEGCGETIYVIGQGSDDGTEYGLSEADMEASYATVKMAEQIEADVILLRERQEA
GGRVRYDYLVRKRVGDNDLFLEVRVAVVGNVDAGKSTLLGVLTHGELDNRGFARQKLFHRKHEIESGRTSS
VGNIDILGFDSEGNVNVKPDSSHGGSLEWTKICEKSTKVITFIDLAGEKYLKTTVFGMTGHLPDFCMLMVG
SNAGIVGMTKEHLGLALALNVPVVFVVTKIDMCPANILQETLKLQRLKSPGCRKIPVLVQSKDDVIVT
ASNFSSERMCPFIQISNVTGENLDLLKMFNLNLSRPTSYREEEPAEFQIDDTYSVPGVGTVVSGTTLRGL
IKLNDTLLGPDPLGNFLSIAVKSIHRKMPVKEVRGGQTASFALKKIKRSSIRKGMVMVSPRLNPQASW
EFEAEILVLHPTTISPRYQAMVHCGSIRQTATILSMDKDCLRTGDKATVHFRFIKTPEYLHIDQRLVFR
EGRTKAVGTITKLLQTTNNSPMNSKPQQIKMQSTKKGPLTKRDEGGPSGGPAVGAPPPGDEASSVAGQP
AASSNLQPQPKPSSGRRRRGGQRHKVKVSGACVTPASGC

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_004286

ORF Size: 2007 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_004286.5](#)

RefSeq Size: 5074 bp

RefSeq ORF: 2010 bp

Locus ID: 9567

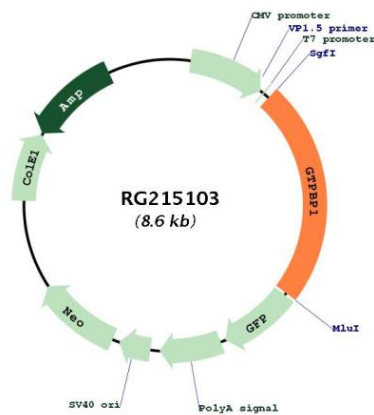
UniProt ID: [O00178](#)

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]

Product images:



Circular map for RG215103