

Product datasheet for **RG217694**

GTPBP3 (NM_133644) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTPBP3 (NM_133644) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GTPBP3
Synonyms:	COXPD23; GTPBG3; MSS1; MTGP1; THDF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG217694 representing NM_133644
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGCGGGGGCTTTGGACCCTGGCGGCCAAGCGGCACGTGGGCCTCGCAGATTGTGCACGCGCCGGA
 GCAGCGCGCACCAAGCCCCGGCTCCGGCGCCACCATCTTCGCGCTAAGCTCTGGCCAAGGCCGCTGCGG
 CATCGCAGTGATCCGGACCAGCGCCCCGCCAGCGGCCACGCCCTCCGAATTCTACCGCACCCCGAGAC
 CTGCCCTTGTCTCGCCACGCCAGCCTGCGCCTGCTCAGCGATCCCGCTCCGGGGAGCCTCTGGACCGCG
 CACTGGTGTCTGGTTCCAGGTCCCAGAGTTTCACCGGTGAGGACTGCGTGGAGTTCCACGTGCATGG
 AGGCCCGGCAGTGGTGAAGCGGCTCTGCAGGCCCTGGGCAGCGTGCCAGGGCTTCGACCGCGGAGGCA
 GGGCAGTTACCAGACGGGCGTTCGCCAATGGGAAGCTGAACCTGACCGAAGTGGAGGGGCTGGCGGACC
 TTATCCACGCGGAAACAGAGGCGCAGCGCGCCAGGCCCTCAGGCAGCTGGACGGAGAGCTGGGCCACCT
 CTGCCGTGGCTGGCCGAGACCCCTACCAAAGCTTGCCACAGTGGAGGCCTATATCGATTTCCGGCGAG
 GATGACAACTGGAGGAGGGGTCTGGAGCAAGGTGGTCTACCTGGTGGTGGGGGAGGAAGACACCTC
 ATATCAGCCCTCAAAGGCTCCCCTCACTGTCTCTCTGCTGCTTCTCTCACCCACAGCCGACATCGA
 AGTACGGGCACTGCAGGTGGCCCTGGGTGCACATCTACGAGATGCCAGGCGCGGGCAGAGGCTCCGCTCA
 GGGGCGCACGTAGTGGTCACTGGACCCCAATGCGGGCAAGAGCAGCCTAGTGAACCTGCTCAGTCGGA
 AGCCTGTGTCCATCGTGTCCCGGAGCCAGGGACCACCGTGACGTGCTGGAGACCCAGTCGACCTGGC
 CGGATTTCTGTGTCTGCTGAGCGACACGGCTGGGTTGCGGGAGGGCGTGGGGCCCGTGGAGCAGGAGGGC
 GTGCGCGCGCCCGGGAGAGGCTAGAGCAGGCTGACCTCATTCTGGCCATGCTGGATGCTTCTGACCTGG
 CCTCTCCCTCCAGTTGCAACTTCTGGCACCGTCTGAGCCTCTGTGGGAGCCAGAGCCCAAGTGGAGC
 CAGCCAGCGCCTCTCTGGTGTGAACAAGTCGGACCTGCTGTCCCGGAGGGCCAGGTCCCGGTCTCT
 GACCTGCCCCCGCACCTGCTGCTGCTGCTGCTGACGGGAGAGGGGCTGGACGGCCTCTGGAGGCGTGA
 GGAAGGAGCTAGCTGCAGTGTGTGGGACCCGTCACAGATCCCCGCTGCTGACCCGAGCAAGGCACCA
 GCACCACCTCCAGGGTTGCTGGATGCCCTCGGCCACTACAAGCAGTCAAAGACCTGGCCCTGGCGGCA
 GAGGCGCTGCGGGTGGCCGGGGTACCTGACCCGGCTCACAGGTGGAGGGGTACCGAGGAGATCTCTGG
 ACATCATCTTCCAGGACTTCTGTGTGGCAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG217694 representing NM_133644
 Red=Cloning site Green=Tags(s)

MWRGLWTLAAQAARGPRRLCTRSSGAPAPGSGATIFALSSGQGRCGIAVIRTSGPASGHALRILTAPRD
 LPLARHASLRLLSDPRSGEPLDRALVLFPGPQSFTGEDCVFHVHGGPAAVSVGLQALGSVPGLRPAEA
 GEFTRRAFANGKLNLEVEGLADLIHAETEAQRRQALRQLDDELGHLCRGWAETLTKALAHVEAYIDFGE
 DDNLEEGVLEQGGSTWWWGRKTPHISPQRLPSLSLACLSPADIEVRALQVALGAHLRDARRGQRLRS
 GAHVVTGPPNAGKSSLVNLRSRKPVSIVSPEPGTTRDVLETPVDLAGFPVLLSDTAGLREGVGPVEQEG
 VRRARERLEQADLILAMLDASDLASPSSCNFLATVVASVGAQSPSDSSQRLLLVLNKSDLLSPEGPGPGP
 DLPPHLLLSCLTGEGLDGLLEALRKELAAVCGDPSTDPPLLTRARHQHHLQGCLDALGHYKQSKDLALAA
 EALRVARGHLTRLTGGGGTTEEILDIIIFQDFCVGK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_133644

ORF Size: 1572 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_133644.1](#), [NP_598399.1](#)

RefSeq Size: 1960 bp

RefSeq ORF: 1575 bp

Locus ID: 84705

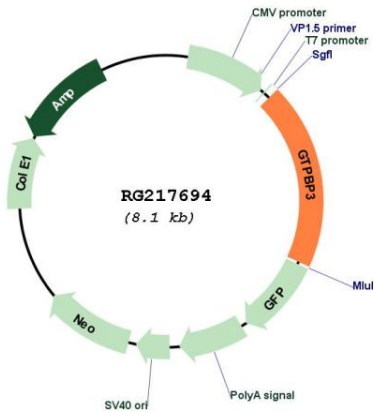
UniProt ID: [Q969Y2](#)

Cytogenetics: 19p13.11

Gene Summary:

This locus encodes a GTP-binding protein. The encoded protein is localized to the mitochondria and may play a role in mitochondrial tRNA modification. Polymorphisms at this locus may be associated with severity of aminoglycoside-induced deafness, a disease associated with a mutation in the 12S rRNA. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Sep 2010]

Product images:



Circular map for RG217694