

Product datasheet for **RG200836**

GTPBP3 (NM_032620) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTPBP3 (NM_032620) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG200836 representing NM_032620
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGCGGGGGCTTTGGACCTGGCGGCCAAGCGGCACGTGGGCCTCGCAGATTGTGCACGCGCCGGA
 GCAGCGGCGCACCCAGCCCCGGCTCCGGCGCCACCATCTTCGCGCTAAGCTCTGGCCAAGGCCGCTGCGG
 CATCGCAGTGATCCGGACCAGCGCCCCGCCAGCGGCCACGCCCTCCGAATTCTCACAGCACCCGAGAC
 CTGCCCTTGCTCGCCACGCCAGCCTGCGCCTGCTCAGCGATCCCCGCTCCGGGGAGCCTCTGGACCGCG
 CACTGGTGCTCTGGTTCCAGGTCCCAGAGTTTACCAGGTGAGGACTGCGTGGAGTTCCACGTGCATGG
 AGGCCCGGCAGTGGTGAAGCGGCTCTGCAGGCCCTGGGCAGCGTGCCAGGGCTTCGACCGCGGAGGCA
 GGGCAGTTACCAGACGGCGTTCGCCAATGGGAAGCTGAACCTGACCGAAGTGGAGGGGCTGGCGGACC
 TTATCCACGCGGAAACAGAGGCGCAGCGCGCCAGGCCCTCAGGCAGCTGGACGGAGAGCTGGGCCACCT
 CTGCCGTGGCTGGCCGAGACCCACCAAAGCTCTGGCCACGTGGAGGCCTATATCGATTTCCGGCGAG
 GATGACAACCTGGAGGAGGGGTCTGGAGCAAGCCGACATCGAAGTACGGGCACCTGCAGGTGGCCCTGG
 GTGCACATCTACGAGATGCCAGGCGCGGCAGAGGCTCCGCTCAGGGGTGCACGTAGTGGTCACTGGACC
 CCCAATGCGGGCAAGAGCAGCCTAGTGAACCTGCTCAGTCGGAAGCCTGTGTCCATCGTGTCCCGGAG
 CCAGGGACCACCCGTGACGTGCTGGAGACCCAGTCGACCTGGCCGGATTTCTGTGCTGCTGAGCGACA
 CGGCTGGGTTGCGGGAGGGCGTGGGGCCCGTGGAGCAGGAGGGCGTGGCGCGCCCGGGAGAGGCTAGA
 GCAGGCTGACCTATTCTGGCCATGCTGGATGCTTCTGACCTGGCCTCTCCCTCCAGTTGCAACTTCTG
 GCCACCGTCGTAGCCTCTGTGGAGCCCAGAGCCCAGTGACAGCAGCCAGCACCTCTCTGGTGTGTC
 ACAAGTCGGACCTGCTGTCCCGGAGGGCCAGTCCCGTCTGACCTGCCCGCACCTGCTGTGTC
 CTGTCTGACGGGAGAGGGGCTGGACGGCCTCTGGAGGCGCTGAGGAAGGAGCTAGCTGCAGTGTGTGGG
 GACCCGTCACAGATCCCCGCTGCTGACCCGAGCAAGGCACCAGCACCTCCAGGGTTGCTGGATG
 CCCTCGGCCACTACAAGCAGTCAAAGACCTGGCCCTGGCGGCAGAGGCGCTGCGGGTGGCCCGGGTCA
 CCTGACCCGGCTCACAGGTGGAGGGGTACCGAGGAGATCCTGGACATCATCTCCAGGACTTCTGTGTG
 GGCAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200836 representing NM_032620
 Red=Cloning site Green=Tags(s)

MWRGLWTLAAQAARGPRRLCTRRSSGAPAPGSATIFALSSGQGRCGIAVIRTSGPASGHALRILTAPRD
 LPLARHASLRLLSDPRSGEPLDRALVLFPGPQSFTGEDCVFHVHGGPAVVSGVLQALGSVPGLRPAEA
 GEFTRRAFANGKLNLEVEGLADLIHAETEAQRRQALRQLDGELGHLCRGWAETLTKALAHVEAYIDFGE
 DDNLEEVLEQADIEVRALQVALGAHLRDARRQRLRSGVHVVTGPPNAGKSSLVNLRSRKPVSIVSPE
 PGTTTRDVLLETPVDLAGFPVLLSDTAGLREGVGPVEQEGVRRARERLEQADLILAMLASDLASPSNCF
 ATVVASVGAQSPSDSSQHLLLVLNKSDLLSPEGPGPDLPPhLLL SCLTGEGLDGLLEALRKELAAYCG
 DPSTDPPLLTRARHQHHLQGCLDALGHYKQSKDLALAAEALRVARGHLTRLTGGGGTTEEILDIIIFQDFCV
 GK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_032620

ORF Size: 1476 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_032620.1](#), [NP_116009.1](#)

RefSeq Size: 2545 bp

RefSeq ORF: 1479 bp

Locus ID: 84705

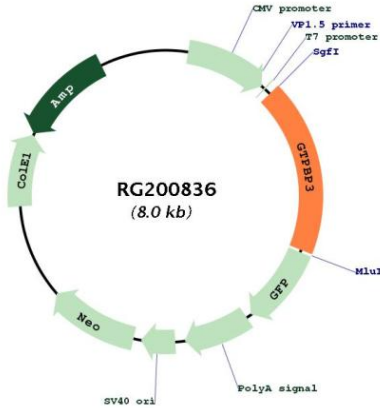
UniProt ID: [Q969Y2](#)

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 RG200836