

## Product datasheet for **RG225798**

### **GTPBP3 (NM\_001128855) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GTPBP3 (NM_001128855) 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:**

>RG225798 representing NM\_001128855  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTGGCGGGGGCTTTGGACCTGGCGGCCAAGCGGCACGTGGGCCTCGCAGATTGTGCACGCGCCGGA  
 GCAGCGGCGCACCCAGCCCCGGCTCCGGCGCCACCATCTTCGCGCTAAGCTCTGGCCAAGGCCGCTGCGG  
 CATCGCAGTGATCCGGACCAGCGCCCCGCCAGCGGCCACGCCCTCCGAATTCTCACAGCACCCGAGAC  
 CTGCCCTTGTCTCGCCACGCCAGCCTGCGCCTGCTCAGCGATCCCCGCTCCGGGGAGCCTCTGGACCGCG  
 CACTGGTGCTCTGGTTCCAGGTCCCAGAGTTTACCAGGTGAGGACTGCGTGGAGTTCCACGTGCATGG  
 AGGCCCGGCAGTGGTGAAGCGGCTCTGCAGGCCCTTGGCAGCGTGCAGGGCTTCGACCGCGGAGGCA  
 GGGCAGTTCACCAGACGGCGTTCGCCAATGGGAAGCTGAACCTGACCGAAGTGGAGGGGCTGGCGGACC  
 TTATCCACGCGGAAACAGAGGCGCAGCGCGCCAGGCCCTCAGGCAGCTGGACGGAGAGCTGGGCCACCT  
 CTGCCGTGGCTGGCCGAGACCTCACAAAGCTCTGGCCACGTGGAGGCCTATATCGATTTCCGGCGAG  
 GATGACAACCTGGAGGAGGGGTCTGGAGCAAGCCGACATCGAAGTACGGGCACTGCAGGTGGCCCTGG  
 GTGCACATCTACGAGATGCCAGGCGCGGCAGAGGCTCCGCTCAGGGGTGCACGTAGTGGTCACTGGACC  
 CCCAATGCGGGCAAGAGCAGCCTAGTGAACCTGCTCAGTCGGAAGCCTGTGTCCATCGTGTCCCGGAG  
 CCAGGGACACCCGTGACGTGCTGGAGACCCAGTCGACCTGGCCGATTTCCTGTGCTGCTGAGCGACA  
 CGGCTGGGTTGCGGGAGGGCGTGGGGCCCGTGGAGCAGGAGGGCGTGGCGCGCCCGGGAGAGTTGCAA  
 CTTCTGGCCACCGTCTGAGCCTCTGTGGGAGCCAGAGCCCAGTGACAGCAGCCAGCGCCTCCTCCTG  
 GTGCTGAACAAGTCGGACCTGCTGTCCCGGAGGGCCAGTCCCGTCTGACCTGCCCGGCACCTGC  
 TGCTGTCTGTCTGACGGGAGAGGGCTGGACGGCCTCCTGGAGCGCTGAGGAAGGAGCTAGCTGCAGT  
 GTGTGGGACCCGTCCACAGATCCCCCGCTGCTGACCCGAGCAAGGCACCAGCACCTCCAGGGTTGC  
 CTGGATGCCCTCGGCCACTACAAGCAGTCAAAGACCTGGCCCTGGCGGAGAGGCGCTGCGGGTGGCC  
 GGGGTACCTGACCCGGCTCACAGGTGGAGGGGTACCGAGGAGATCCTGGACATCATCTCCAGGACTT  
 CTGTGTGGGCAAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG225798 representing NM\_001128855  
 Red=Cloning site Green=Tags(s)

MWRGLWTLAAQAARGPRRLCTRSSGAPAPGSGATIFALSSGQGRGCIAVIRTSGPASGHALRILTAPRD  
 LPLARHASLRLLSDPRSGEPLDRALVLFPGPQSFTGEDCVFHVHGGPAVVSGVLQALGSVPGLRPAEA  
 GEFTRRAFANGKLNLEVEGLADLIHAETEAQRRQALRQLDGELGHLCRGWAETLTKALAHVEAYIDFGE  
 DDNLEEVLEQADIEVRALQVALGAHLRDARRGQRLRSGVHVVTGPPNAGKSSLVNL SRKPVSIVSPE  
 PGTTRDVLLETPVDLAGFPVLLSDTAGLREGVGPVEQEGVRRARESCNFLATVVASVGAQSPSDSSQRLLL  
 VLNKSDLLSPEGPGPDLPPhLLL SCLTGEGLDGLLEALRKELAAVCGDPSTDPPLL TRARHQHHLQGC  
 LDALGHYKQSKDLALAAEALRVARGHLTRLTGGGGTTEEILDIIIFQDFCVGK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001128855

**ORF Size:** 1413 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\\_001128855.3](#)

**RefSeq Size:** 2526 bp

**RefSeq ORF:** 1416 bp

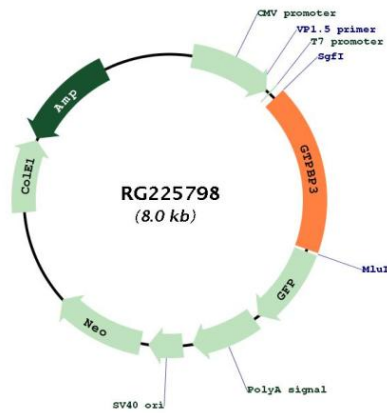
**Locus ID:** 84705

**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 RG225798