

Product datasheet for **MR224264**

Gtpbp3 (NM_032544) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtpbp3 (NM_032544) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gtpbp3
Synonyms:	2410009F13Rik; AI607903
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224264 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGCTGGGCTGAGCGCCCTGGTGACCAGCGCGCTGGGCGCCCTCAGGCTGTGCGCAGCTGCA
 GCACCAGTGCAGAGTCCTTAGTCCCAGCAGCACCATCTTCGCACTCAGCTCCGGCCAGGGACGCTGCGC
 CATCGCAGTGATCCGCACCAGCGGTCCAGCTAGCGGGCTCGCGCTCCGCAGCCTCACGGCCTCCAGGAG
 CCGCCTCTGCCCGCAGAGCCTGCCTGCGCCTTCTCCGCCACCCGTGCTCCGGGGAGCCACTGGACCCT
 CACTCGTCTCTGGTTCCAGGACCCAGAGTTTCACGGGTGAGGATTGCGTGGAGTTTCACGTACACGG
 AGGTCTGCGGTGGTCAAGCGGTGCTTGCAGGCATTGGGTAGTGTGCCAGGACTGCGGCCAGCCAGGGCC
 GGAGAGTTCACCAGGAGGGCATTGGCCATGGCAAGCTGAGCCTGACTGAAGTGGAGGGACTGGCAGATC
 TTATCCGTGCAGAACTGAGGCCAGCGTCGACAGGCTCTGAGGCAGCTGGATGGGGAAGTGGCCAGCT
 CTGCCAGGGCTGGCAAAGACTCTACCAAGGCTCTGGCCTATGTGGAGGCTACATTGACTTCGGAGAG
 GATGATAAATTTGGAAGAGGGTGTGTTGGAGCAGGCGGACAGAGAAGTTCGAGCCCTGGAGGTGGCGCTGG
 GTTCCACCTGCGAGATGCTAGGCGTGGACAAAGGCTCCTCTCGGGGGCAAATGTTGTGGTCACTGGACC
 TCCCAATGCGGGCAAGAGCAGTCTGGTGAATCTACTCAGCCAAAAGCCAGTGTCCATCGTGTCCCAGAG
 CCTGGGACCACCCGTGACGTGCTGGAGACTCCCGTGGACTTGGCTGGGTTCCCTGTCTTGCTGAGCGACA
 CTGCAGGGCTCCGGGAAGGCGTGGGCGCTGTTGAGCAGGAGGGTGTGCGCAGGGCCCGCCACAGGCTGGA
 GCAGGCTGACATCTTGGGGTGTGGAGCCTCCGACCTGGCCTCCTCATCCAGCTGCAGCTTCCCTG
 GACACTGTAGTGACCCCACTGCTAGCACAAAGCCAAGACAGCGGTGGGCAGCGCCTCTGCTGCTCTCA
 ACAAACTGATCTGCTGTCTGTAATGCCCCAGCCTGCGACATAGCCCTGCCTCACCTGCTCTCTGCTGTC
 CTGCCACACGGGAGCCGGGATGGACAGCCTCCTGCAGGCCCTGAAGACCGAGCTGGCTGCGGTGTGTGGG
 GACCCATCCACAGGACCACCGCTCTTGACCCGGGTCAAGCACCAGTACCACCTCCAGGGCTGCCTGGATG
 CCTTGGGCCACTACCAGCTGGCCACAGACTGGCTCTGGCGGCCAGGCCCTGCGCCAGGCTCGGAGGCA
 ACTAAATCACCTCACAGGTGGAGGAGGAACGGAGGAGATCCTGGATCTCATCTTCCAGGACTTCTGTGTG
 GGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224264 protein sequence
 Red=Cloning site Green=Tags(s)

MWRGLSALVTQAAWAPLRLCARCSTSAESLVPSSSTIFALSSGQGRCAIAVIRTSGPASGLALRSLTALQE
 PPPARRACLRLLRHPCSGEPLDRSLVLFPGPQSFTGEDCVFHVHGGP AVVSGVLQALGSVPGLRPAEA
 GEFTRRFAHGKLSL TEVEGLADLIRAETEAQRQALRQLD GELSQLCQGWAKLTKALAYVEAYIDFGE
 DDNLEEGVLEQADREVRAL VALGSHLRDARRGQRLLSGANVVVTGPPNAGKSSLV NLLSQKPVSIVSPE
 PGTTRDVLETPVDLAGFPVLLSDTAGLREGVGAVEQEGVRRARHRLEQADIILGVLDASDLASSSSCSFL
 DTVVTPLLAQSDSGGQRL LLLLNNKSDLLSANAPACDIALPPHLLLSCHT GAGMDSLLQALKTELAAVCG
 DPSTGPPLLTRVRHQYHLQGLDALGHYQLATDLALAAEALRQARRQLNHLTGGGGTEEILD LIFQDFCV
 GK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_032544

ORF Size: 1479 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_032544.4](#)

RefSeq Size: 2800 bp

RefSeq ORF: 1479 bp

Locus ID: 70359

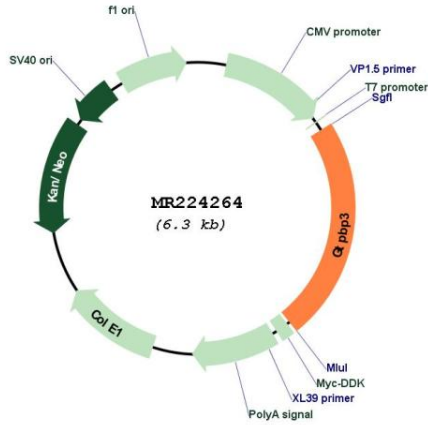
UniProt ID: [Q923K4](#)

Cytogenetics: 8 B3.3

MW: 52.2 kDa

Gene Summary: GTPase involved in the 5-carboxymethylaminomethyl modification (mnm(5)s(2)U34) of the wobble uridine base in mitochondrial tRNAs.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224264