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Product datasheet for SC104125

GTPBP3 (NM_032620) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTPBP3 (NM_032620) Human Untagged Clone
Tag:	Tag Free
Symbol:	GTPBP3
Synonyms:	COXPD23; GTPBG3; MSS1; MTGP1; THDF1
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF sequence for NM_032620 edited ATGTGGCGGGGGCTTTGGACCCTGGCGGCCCAAGCGGCACGTGGGCCTCGCAGATTGTGC ACGCGCCGGAGCAGCGGCGCACCAGCCCCCGGCTCCGGCGCCACCATCTTCGCGCTAAGC TCTGGCCAAGGCCGCTGCGGCATCGCAGTGATCCGGACCAGCGGCCCCGCCAGCGGCCAC GCCCTCCGAATTCTCACAGCACCCCGAGACCTGCCCCTTGCTCGCCACGCCAGCCTGCGC CTGCTCAGCGATCCCCGCTCCGGGGAGCCTCTGGACCGCGCACTGGTGCTCTGGTTCCCA GGTCCCCAGAGTTTCACCGGTGAGGACTGCGTGGAGTTCCACGTGCATGGAGGCCCGGCA GTGGTGAGCGGCGTCCTGCAGGCCTTGGGCAGCGTGCCAGGGCTTCGACCGGCGGAGGCA GGCGAGTTCACCAGACGGGCGTTCGCCAATGGGAAGCTGAACCTGACCGAAGTGGAGGGG CTGGCGGACCTTATCCACGCGGAAACAGAGGCGCAGCGGCGGCAGGCCCTCAGGCAGCTG GACGGAGAGCTGGGCCACCTCTGCCGTGGCTGGGCCGAGACCCTCACCAAAGCTCTGGCC CACGTGGAGGCCTATATCGATTTCGGCGAGGATGACAACCTGGAGGAGGGGGTCCTGGAG CAAGCCGACATCGAAGTACGGGCACTGCAGGTGGCCCTGGGTGCACATCTACGAGATGCC AGGCGCGGGCAGAGGCTCCGCTCAGGGGTGCACGTAGTGGTCACTGGACCCCCCAATGCG GGCAAGAGCAGCCTAGTGAACCTGCTCAGTCGGAAGCCTGTGTCCATCGTGTCCCCGGAG CCAGGGACCACCCGTGACGTGCTGGAGACCCCAGTCGACCTGGCCGGATTTCCTGTGCTG CTGAGCGACACGGCTGGGTTGCGGGAGGGCGTGGGGCCCGTGGAGCAGGAGGGCGTGCGG CGCGCCCGGGAGAGGCTAGAGCAGGCTGACCTCATTCTGGCCATGCTGGATGCTTCTGAC CTGGCCTCTCCCTCCAGTTGCAACTTCCTGGCCACCGTCGTAGCCTCTGTGGGAGCCCAG AGCCCCAGTGACAGCAGCCAGCGCCTCCTCCTGGTGCTGAACAAGTCGGACCTGCTGTCC CCGGAGGGCCCAGGTCCCGGTCCTGACCTGCCCCCGCACCTGCTGCTGTCCTGTCTGACG GGAGAGGGGCTGGACGGCCTCCTGGAGGCGCTGAGGAAGGAGCTAGCTGCAGTGTGTGGG GACCCGTCCACAGATCCCCCGCTGCTGACCCGAGCAAGGCACCAGCACCACCTCCAGGGT TGCCTGGATGCCCTCGGCCACTACAAGCAGTCAAAAGACCTGGCCCTGGCGGCAGAGGCG CTGCGGGTGGCCCGGGGTCACCTGACCCGGCTCACAGGTGGAGGGGGTACCGAGGAGATC CTGGACATCATCTTCCAGGACTTCTGTGTGGGCAAGTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032620 unedited
GTGTACGAATTTTGGTATACGACTCACTATAGGGCGGCCGGCGATTCGGCACGAGGAGCC
ACACAGGCAGGTCGGGCAGGCGGGTCGCAGGTTGTAAATCCATGTGGCGGGGGCTTTGGA
CCCTGGCGGCCCAAGCGGCACGTGGGCCTCGCAGATTGTGCACGCGCCGGAGCAGCGGCG
CACCAGCCCCCGGCTCCGGCGCCACCATCTTCGCGCTAAGCTCTGGCCAAGGCCGCTGCG
GCATCGCAGTGATCCGGACCAGCGGCCCCGCCAGCGGCCACGCCCTCCGAATTCTCACAG
CACCCCGAGACCTGCCCCTTGCTCGCCACGCCAGCCTGCGCCTGCTCAGCGATCCCCGCT
CCGGGGAGCCTCTGGACCGCGCACTGGTGCTCTGGTTCCCAGGTCCCCAGAGTTTCACCG
GTGAGGACTGCGTGGAGTTCCACGTGCATGGAGGCCCGGCAGTGGTGAGCGGCGTCCTGC
AGGCCTTGGGCAGCGTGCCAGGGCTTCGACCGGCGGAGGCAGGCGAGTTCACCAGACGGG
CGTTCGCCAATGGGAAGCTGAACCTGACCGAAGTGGAGGGGCTGGCGGACCTTATCCACG
CGGAAACAGAGGCGCAGCGGCGGCAGGCCCTCAGGCAGCTGGACGGAGAGCTGGGCCACC
TCTGCCGTGGCTGGGCCGAGACCCTCACCAAAGCTCTGGCCCACGTGGAGGCCTATATCG
ATTTCGGCGAGGATGACAACCTGGAGGNAGGNGGTCCTGGAGCAAGCCGACATCGAAGTA
CGGGCACTGCAGGTGGCCCTGGGTGCCATCTACGAGAGCCAGGCGCGGGCAGAGCTCCGC
TCAGGGTGCACGTTAGTGGTCACTGGACCCCNCATGCGGNNCAGACAGNCTAGTGACCTG
CTCAGTCGAAACCTGTGTCCATCGTGTNCCCGGAGCAGGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032620 unedited
TAGCTTGNAACGCGGCACGCAATCTATGATCAGNNNCTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTGGAGAGCAATGAACACAATACCCTTTATTTTTGATACACAAGACAAAC
CTATTTGAAAGGGACATCCACAAGTATTGCAAACACTTCAAAGGTTCTGGGAAAGACACA
CATTAAGCCCTGACAACCACAGAAGGGCTAAGGAAAATTTCCATGTTGAAACACTTTTGG
GGCCAGGTGTGATAACTCACGCCTGGGATCCCAGCACTTTGGGAGGCCAAGGGAGGCAGA
TTACCTGAGGGCAAGGAGTTCAAGAACAACCTGGGCAACATGGGGAAACCTTGGCTCTAC
TAAAAATACAAAAATTAACCTGGCGTGGGGGTGTGCGCCTGTAGTCCCAGCTACTCAAGA
AGCTGAGGCAGGAAAATCACTTGAACCCGGGAGGGGGAGGTTGCAGTAAGCCGAGGGCGC
ACCACTGAACTCCAACCTGGGTGACAGAACGAGACTCTGTCTCAAAAAAAGAAAAAAATT
AACCGGGCATGCTGGCACATGCCTGGAATCCCAGCTACTCAAGAGGCTGAGGCAGGAGAA
ACGCTTGAGCCCCGGAGATGGAGGTTGCAGTGAGCCAAGGTCGCACCACTGGACTCCAGC
CTGGGCAATAAACAAAAGAAGGAAAGGTATGGGAAAGGGATGGGGAAGGGGGAATTGCCT
CACACATCCCCTATTTTCTCCTCTTCTCCCCCACACCAAACACTCCATCTGCCCCCTCAT
ATTCCCCCCTTCTTCCCTTCCCCCCTTCCCCACACTTTCCATACCCCCCCCCCCCTCCCT
CACTCTTCCCTACTTTCGATANCTATGCCCTATTCTATATCTTCTCTTCAATTCCGAACC
ATCTCAACTCATGCTTCCTTCACCCCTACCTCTACTCCATCTCATAAAAATATACCAGAG

Restriction Sites: NotI-NotI

ACCN: NM_032620

Insert Size: 2630 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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] Transcript Variant: This variant (V) lacks an in-frame segment in the CDS, compared to variant IV. The resulting protein (isoform V) is shorter than isoform IV. This variant is also referred to as isoform I in PubMed IDs 12370316 and 18852288.