

## Product datasheet for **RG203886**

### **c20orf72 (MGME1) (NM\_052865) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	c20orf72 (MGME1) (NM_052865) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	c20orf72
Synonyms:	bA504H3.4; C20orf72; DDK1; MTDPS11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203886 representing NM_052865 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGATGAAGTTATTTTCAGACCATTTGCAGGCAGCTCAGGAGTTCAAAGTTTTCTGTGGAATCAGCTG  
CCCTTGTGGCTTTCTCTACTTCTTACTCATGTGGCCGAAGAAAAAGTGAACCCATATGAAGAAGT  
GGACCAAGAAAAATACTCTAATTTAGTTCAGTCTGTCTTGTTCATCCAGAGGCGTCGCCAGACCCCGGA  
TCGGTGGAGGAAGATGCTTTGCTCTGTGGACCCGTGAGCAAGCATAAGCTGCCAAACCAAGGTGAGGACA  
GACGAGTGCCACAAAACGGTTTCTATCTTCAATCCAGAGAGAAGTGATAAACCAAATGCAAGTGATCC  
TTCAGTTCCTTTGAAAATCCCTTGCAAAGGAATGTGATACCAAGTGTGACCCGAGTCCCTCAGCAGACC  
ATGACAAAACAACAGGTTTTCTTGTGGAGAGGTGAAAACAGCGGATGATTCTGGAAGTGGGAGAAGATG  
GCTTTAAAGAATACACTTCAAACGTCTTTTACAAGGGAAACGGTTCACGAAGCCTTGGAAAGCATACT  
TTCACCCAGGAAACCTTAAAAGAGAGAGATGAAAATCTCCTCAAGTCTGGTTACATTGAAAGTGTCCAG  
CATATTCTGAAAGATGTCAGTGGAGTGCAGCTCTTCAAAGTGTGTTCAACATGAAACCTTAAACTATA  
TAGGCTGCTGGACTGTGTGGCTGAGTATCAGGCAAGCTCTGTGTGATTGATTGGAAGACATCAGAGAA  
ACCAAAGCCTTTTATTCAAAGTACATTTGACAACCCACTGCAAGTTGTGGCATAACATGGGTGCCATGAAC  
CATGATACCAACTACAGCTTTTCAGGTTCAATGTGGCTTAATTGTGGTGGCCTACAAGATGGATCACCTG  
CCACCCACATTTTCATGGATGCAGAGCTCTGTTCCAGTACTGGACCAAGTGGCTTCTTCGACTAGAAGA  
ATATACGGAAAAGAAAAAGAACCAGAATATTCAGAAACCAGAATATTCAGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203886 representing NM\_052865  
Red=Cloning site Green=Tags(s)

MKMKLFQITCRQLRSSKFSVESAAALVAFSTSSYSCGRKKKVNYPYEEVDQEKYSNLVQSVLSSRGVAQTPG  
 SVEEDALLCGPVSKHKLPNQGEDRRVQPQNWFPINFNPERSDKPNASDPVPLKIPLQRNVIPSVTRVLQQT  
 MTKQQVFLLERWKQRMILELGEDGFKEYTSNVFLQGRFHEALESILSPQETLKERDENLLKSGYIESVQ  
 HILKDVSGVRALESVQHETLNYIGLLDCVAEYQKLCVIDWKTSEKPKPFIQSTFDNPLQVVAYMGAMN  
 HDTNYSFQVQCGLIVVAYKDGSPAHPHFMDAELCSQYWTWLLRLEEYTEKKKNQNIQKPEYSE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_052865

**ORF Size:** 1032 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\\_052865.4](#)

**RefSeq Size:** 2142 bp

**RefSeq ORF:** 1035 bp

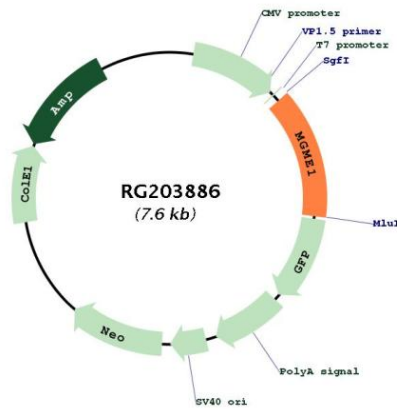
**Locus ID:** 92667

**UniProt ID:** [Q9BQP7](#)

**Cytogenetics:** 20p11.23

**Gene Summary:** The protein encoded by this gene is a nuclear-encoded mitochondrial protein necessary for the maintenance of mitochondrial genome synthesis. The encoded protein is a RecB-type exonuclease and primarily cleaves single-stranded DNA. Defects in this gene have been associated with mitochondrial DNA depletion syndrome-11. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2015]

### Product images:



Circular map for RG203886