

Product datasheet for **MG206766**

Mto1 (BC063256) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mto1 (BC063256) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mto1
Synonyms:	2310039H01Rik; 5730419A02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206766 representing BC063256 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTTCTTCTCCGAGGCCGTGGCCATTGGGCCGACGCTCCCTCGGCAGACGGCTGCCTTTGCGTCGCC
TCCGCAGCGACAGCGCGGCCCTGCACCCGCACTTCGACGTGGTAGTTATCGGAGGAGGACGCGGG
GACCGAGCGGCCGCCGCCGCTCGCTGTGGCTCGCGGACCCTGCTTCTCACGCACCGCTGGACACG
ATCGGTACAGATGTCCTGTAATCCTTCTTTGGTGGCATCGAAAGGGGCATTTGATGAGAGAAGTGATG
CCTTGGATGGTCTGTGTTCCCGATCTGTGACCACTCTGGTATACATTACAAAGTGCTAAACCGCGTAA
GGGCCCTGCTGTGTGGGACTGAGAGCACAGATTGACCGGAACTTTATAAACAGAACATGCAGAAAGAA
ATCCTGAGCACGCCCTACTCACTGTTCAGAAGGAGCTGTAGAAGATCTAGTTCTTGCAGAACCAGAGC
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TGTAATTCTGACTACTGGGACATTTCTGAGAGGCATGATCATAATTGGATTGGAGATGCATCCTGCAGGA
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TGTTACTTGACTCACACCAACCCCGAGTGGATGCGATTGTCCTTGAGAACCTTCACCTGAATAGCCACG
TTCAGGAAACTACAAAAGGCCCGGATGTCCTCTATTGAATCAAAGGTTTTACGTTTTCCAATCG
TCTGCATCAGTTTGGTTGGAGCCTGAAGGAATGGATTCCGACCTCATCTACCCGCAAGGTTATCTGTT
ACACTGCCAGCTGAGTTACAGGAGAAAATGATAACATGCATCAGAGGCTTGGAGAAAGCCAAAATGGTTC
ACCCAGGCTATGGTGTGCAATGATTATTTAGACCCCGTCAGATCAGTCCTTCCCTCGAGACACACTT
GGTTCAGCGGCTGTTCTTTGCTGGACAGATAAATGGAACCACTGGCTATGAGGAAGCTGCAGCTCAGTCC
TCTTCTAGGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG206766 representing BC063256
 Red=Cloning site Green=Tags(s)

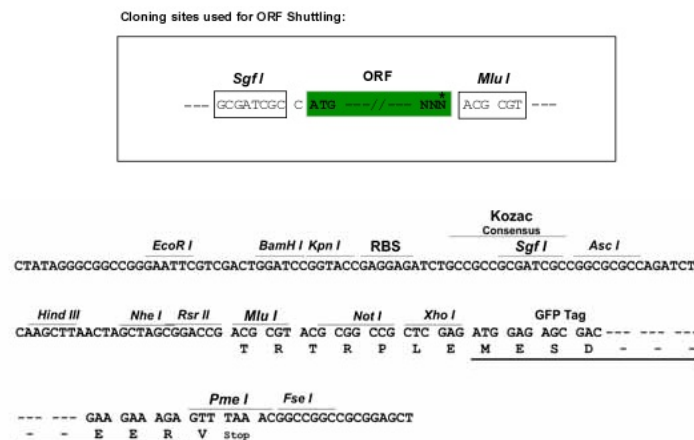
MFLLRGRGHWAASLGRRLPLRRLRSDSAAPCTPHFDVVVIGGGHAGTEAAAAAARCGSRTLLLTHRVD
 IGQMSCNPSFGGIGKGLMREVDALDGLCSRICDQSGIHYKVLNRRKGPVWGLRAQIDRKLYKQNMQKE
 ILSTPLLTVQKGAEDLVLAEPGYPGKSRVRGVVLADGSTIYAESVILTTGTFLRGMIIIGLEMHPAG
 RLGDQPSIGLAQTLEKLGMVGRKLTGTPRLAKESINFILNKHTPDPSIPFSFLSDSVWIKPEDQLP
 CYLTHTNPRVDAIVLENLHLSHVQETTKGPRYCPSIESKVLRFNRLHQVWLEPEGMSDLIYPQLSV
 TLPALQEKMITCIRGLEKAKMVHPGYGVQYDYLDPRQISPLETHLVQRLFFAGQINGTTGYEEAAQSS
 SSRG

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC063256

ORF Size: 1272 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC063256](#)

RefSeq Size: 5221 bp

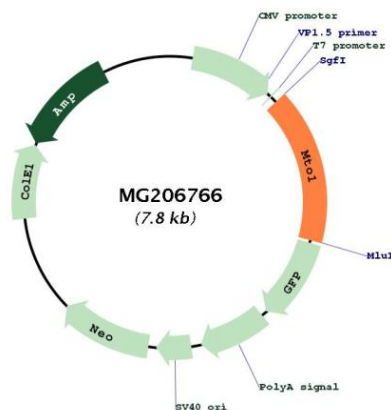
RefSeq ORF: 1274 bp

Locus ID: 68291

Cytogenetics: 9 E1

Gene Summary: 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 MG206766