

Product datasheet for **MC220260**

Mto1 (NM_026658) Mouse Untagged Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Mto1 (NM_026658) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Mto1 |
| Synonyms: | 2310039H01Rik; 5730419A02Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC220260 representing NM_026658
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCTCTCCGAGGCCGTGGCCATTGGGCCGACGCTCCCTCGGCAGACGGCTGCCTTTGCGTCGCC
 TCCGCAGCGACAGCGCGGCCCTGCACCCCGCACTTCGACGTGGTAGTTATCGGAGGAGGGCACGCGGG
 GACCGAGCGCGCCGCGCCGCGCTCGCTGTGGCTCGCGACCCTGCTTCTCACGCACCGCTGGACACG
 ATCGGTACAGATGTCTGTAATCCTTCTTTGGTGGCATCGGAAAGGGGCATTTGATGAGAGAAGTGGATG
 CCTTGGATGGTCTGTGCCGGATCTGTGACCAGTCTGGTATACATTACAAAGTCTAAACCGCGTAA
 GGGCCCTGCTGTGGGGACTGAGAGCACAGATTGACCGAAACTTTATAAACAGAACATGCAGAAAAGAA
 ATCCTGAGCACGCCCTACTCACTGTTCAGAAGGGAGCTGTAGAAGATCTAGTCTTGCAGAACAGAGC
 CTGGGTACCCTGGGAAGTCCAGGGTCCAGAGTGTGTCTGCGCAGATGGAAGTACAATTTATGCAGAGAG
 TGTAATCTGACTACTGGACATTTCTGAGAGGCATGATCATAATTGGATTGGAGATGCATCCTGCAGGA
 CGTTTGGGGGATCAGCCCTCCATAGGGTTGGCTCAGACTCGGAGAAGTTGGGATTTATGGTAGGAAGAC
 TAAAGACTGGAATCCACCCCGACTCGCTAAAGAGTCCATTAATTTCTCCATTCTAAACAAGCACACACC
 AGATGATCCATCCATACCATTCAGCTTTCTCAGTGACAGCGTGTGGATCAAGCCGGAAGCAACTGCCA
 TGTTACTTGACTCACACCAACCCCGAGTGGATGCGGATTGCTTGTGAAACCTTCACCTGAATAGCCACG
 TTCAGGAAACTACAAAAGGGCCCGATACTGTCCTCTATTGAATCAAAGGTTTTACGTTTTCCAATCG
 TCTGCATCAGGTTTGGTGGAGCCTGAAGGAATGGATCCGACCTCATCTACCCGAAGGGTTATCTGTT
 ACCTGCCAGCTGAGTTACAGGAGAAAAATGATAACATGCATCAGAGGCTTGGAGAAAGCCAAAATGGTTC
 ACCCAGGCTATGGTGTGCAGTATGATTATTTAGACCCCGTCAGATCAGTCTTCCCTCGAGACACACTT
 GGTTACGCGGCTGTTCTTTGCTGGACAGATAAATGGAACCACTGGCTATGAGGAAGCTGCAGCTCAGGGG
 GTGATAGCTGGAATCAATGCCAGTCTACGAGTCTGAAAGCCACCCTTTGTTGTGAGTCGCACAGAAG
 GCTACATAGGAGTCTTGATTGATGACCTCACTACCCTGGGCACCAGTGGCCATACCGAATGTTCACTAG
 CAGAGTAGAGTCCGATTGCTACTGCGCCCGATAATGCTGACACCCGGCTCACGTTCCGAGCCATAAG
 GAAGCTGGCTGTGTCTCACAGCGATTTGAAAGAGCTTTGGGATGAAGTCATCTTTAGAAGAAGGTA
 TTTCTGTGTTGAAATCCATTAATTTTCAAGCTCCAAATGGAAGGTTAATCCACAAATTCCTATAAG
 TATTAATAGAAGCCTTCTGTCAGTCTCTGGATGTTCTTAAGTATGAAGAAGTGGACATGGAGTCGCTC
 GTCGGCGTCTCCCGAGCCCTGGAGAAGTACTGCATGTAGAGAGCTCGCCAGAAGACTGAAAATAG
 AAGCCAGTTATGAGTCAGTATTGTCATATCAGCTACAAGAAATAAAGGAGTTTCAGCAAGATGAAGCTTT
 GCAGCTTCCACACGAGCTCGACTACCTAACCATCAGGGATGTGTCATTGTCCCAGGAAGTCCGGGAGAAG
 CTACACTTGAGTCGCCCACAGACGATTGGGGCTGCTAGTCGATTTCTGGAGTGACACCAGCTGCCATCA
 TCAATCTGCTCAGATTTGTGAGGAGCACGCGGCAGAGCAGACAGCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_026658
- Insert Size:** 2010 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_026658.2](#), [NP_080934.2](#)

RefSeq Size: 2364 bp

RefSeq ORF: 2010 bp

Locus ID: 68291

UniProt ID: [Q92373](#)

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]