

## Product datasheet for **MG209906**

### **Mta2 (NM\_011842) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mta2 (NM_011842) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mta2
Synonyms:	AW550797; Mata111; mmta2; Mta111
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209906 representing NM\_011842  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGCTAACATGTACCGGGTGGGAGATTACGTCTATTTTGAGAACTCCTCCAGCAATCCTTACCTGG  
 TTAGACGGATTGAGGAGCTCAATAAGACTGCAAAATGGAATGTGGAAGCAAAGGTTGTCTGCTTTTCCG  
 GCGAAGGGATATTTCTAGTAGCCTCAACAGCTTGCTGACAGTAATGCTCGGGAGTTTGAGGAGGAATCA  
 AAACAGCCAGGGTCTCCGAGCAGCAGAGACATCAACTGAAGCACCGAGAGCTTTTTCTTCTCGGCAGT  
 TTGAATCATTACCAGCCACCCACATAAGGGGGAAGTGCAGCGTACTCTTTGAACGAGACAGACATCTT  
 AAACCAGTATCTAGACAAGGAGGACTGCTTTTTTACTCACTGGTGTGATCCTGTGCAGAAGACACTT  
 CTGGCTGATCAAGGGGAGATCAGAGTTGGTTGCAAATCCAAGCTGAGATCCCAGATCGTTTGGCAGAGG  
 GAGAATCAGATAATCGAAACCAACAGAAGATGGAGATGAAAGTCTGGGACCCAGACAACCTCTCACAGA  
 CCGGCAGATTGATCAGTTTCTCGTGGTGGCCCGAGCTGTGGGAACCTTCGCGAGAGCCCTAGACTGCAGC  
 AGCTCAATTCGGCAGCCAAGCTTGCACATGAGTGCAGCTGCTGCGTCCCGAGATACACTCTGTTCCATG  
 CCATGGATACCTTGCAAAGGAATGGCTATGACTTGGCCAAGGCTATGTCAACCCTAGTACCACAGGGAGG  
 CCCGGTGTCTGTGGGATGAGATGGAGGAATGGTCTGCTTCTGAAGCCATGCTGTTTGAAGAGGCTCTG  
 GAGAAGTACGGGAAGGATTTCAATGATATCCGCCAGGACTTTCTACCCTGGAAGTCACTTGAAGCATAG  
 TCCAGTTTTATTACATGTGAAAACACAGACCCGATATTTACAGCAGAAAAGATTGAAAGCTGTGAAGC  
 AGACAGCAAACGAAACAGGTCTACATCCCCTTATACCAAGCCAAACCTAACCAGATCATTCTGTG  
 GGTTCAAACCTGGCATGAATGGGGCTGGATCCAGAAGGGCCTGACTTGTGAGAGCTGCCACACCACAC  
 AGTCTGCCCAGTGGTATGCCTGGGGACCCCTAACATGCAGTGCCGACTTGTGCTTCTGTTGGATTTA  
 TTGGAAGAAATACGGGGGACTGAAGACCCCTACCCAACCTTGAAGGGGCTGCTCGGGGCACCACAGGCCA  
 CACTCAAGAGGTCAATTTATCCAGACCTGAAGCCAAAGTCTCTCCCCTATAACAACAGTCTAACCGGG  
 CCAAGTTGCTGGCTAAGAACAGGCAAACCTTTCTTGTCCAGACCACAAAGCTAACTCGTCTAGCCAGACG  
 AATGTGCCGAGATCTATTACAGCCAAGGAGGGCTGCCGAAGACCCCTATGCACCTATCAATGCCAATGCC  
 ATCAAGGCAGAGTGTCTGATCCGACTTCTAAGGCTGCCAAGACGCCACTGAAAATTCACCTCTGGTGC  
 GGCTGCCCTTGGCAACTATCGTCAAAGATCTGGTGGCTCAGGCACCTCTGAAACCAAAAACACCTCGGGG  
 TACCAAGACCAATCAACAGAAACAGCTGACCCAGAATCGAGGCTGGGGGCATTATGGTGAACGT  
 TCCTATGAGACTATGGCAGGGGCAGGGTCCCCTTCTCTGCCAATGGAAGGCCTCTGGCTTCAGGGATTC  
 GTTCAAGCTCACAGCCAGCAGCCAAGCGTCAGAACTAAACCCTGCTGATGCTCCAATCCAGTGGTATT  
 TGTGGCCACAAAGGACACCAGGGCTTTAAGGAAAGCTCTAACTCACCTGGAAATGCGCCGAGCGCCCGA  
 AGGCCAACCTACCCCTGAAGGTGAAACCAACGCTGATGACAGTGGGCCCCAGTTCCTCTGCCCGCTT  
 CTTACATCCTGCCAGCACCAATGAGCCATTGCTCTGGAGGAT

**ACGCGT**ACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG209906 representing NM\_011842  
 Red=Cloning site Green=Tags(s)

MAANMYRVGDYVYFENSSSNPYLVRRIEELNKTANGNVEAKVVCLFRRRDISSSLNSLADSNAREFEEES  
 KQPGVSEQQRHQLKHRELFLSRQFESLPATHIRGKCSVTLLNETDILNQYLDKEDCFFYSLVFDPVQKTL  
 LADQGEIRVGCKFQAEIPDRLAEGESDNRNQKMEMKVWDPDNPLTDRQIDQFLVVARAVGTFARALDCS  
 SSIRQPSLHMSAAAAARDITLFFHAMDTLQRNGYDLAKAMSTLVPQGGPVLCRDEMEEWSASEAMLFEAL  
 EKYGKDFNDRQDFLPWKSLSASIVQFYMWKTTDRYIQQKRLKAAEADSKLKQVYIPTYTKPNPNIISV  
 GSKPGMNGAGFQKGLTCECHTTQSAQWYAWGPPNMQCRLCASCWYWKYGGGLKPTQLEGAARGTTEP  
 HSRGHLRPEAQSLSPYTTSANRAKLLAKNRQTFLLQTTKLTLLARRMCRDLLQPRRAARRPYAPINANA  
 IKAECISIRLPKAAKTPLKIHPLVRLPLATIVKDLVAQAPLKPKTPRGTKTPINRNQLTQNRGLGGIMVKR  
 SYETMAGAGVPPSANGRPLASGIRSSSQPAAKRQKLNAPADPNPVFVATKDTRALRKALTHLEMRRAAR  
 RPNLPLKVKPTLMTVRPPVPLPASSHPASTNEPIVLED

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_011842

**ORF Size:** 2004 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\\_011842.3](#), [NP\\_035972.3](#)

**RefSeq Size:** 3149 bp

**RefSeq ORF:** 2007 bp

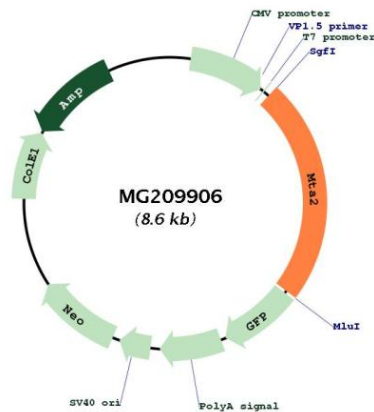
**Locus ID:** 23942

**UniProt ID:** [Q9R190](#)

**Cytogenetics:** 19 A

**Gene Summary:** May be involved in the regulation of gene expression as repressor and activator. The repression might be related to covalent modification of histone proteins.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG209906