

## Product datasheet for **MG206213**

### Mat1a (NM\_133653) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mat1a (NM_133653) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mat1a
Synonyms:	A; AdoM; AdoMet; A1046368; Ams; MA; MAT; MATA1; S; SA; SAMS; SAMS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206213 representing NM_133653 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATGGACCTGTGGATGGCTTGTGTGACCATTCTCTAAGTGAAGAGGGAGCCTTCATGTTACATCAG  
AATCTGTAGGAGAGGGGCATCCAGATAAGATCTGTGACCAGATTAGTGATGCGGTGCTGGATGCTCACCT  
CAAGCAAGACCCCAATGCCAAGGTGGCCTGTGAGACAGTGTGCAAGACAGGTATGGTCTACTGTGTGGG  
GAGATCACCTCAGTGGCCATGGTTGATTACCAGCGGGTGGTGAAGACACCATCAAGCACATTGGCTATG  
ACGACTCTGCCAAGGGCTTTGACTTCAAGACTTGAATGTGCTAGTGGCTCTGGAGCAACAGTCCCAGA  
TATTGCCCAATGTGTCCACCTAGACAGAAATGAAGAGGATGTTGGTGCAGGAGATCAGGGTCTGATGTTT  
GGCTATGCTACTGATGAGACCGAGGAATGCATGCCCTTACCATCGTGTCTCGCTCACAACTCAACACCC  
GGATAGCAGATCTGAGGCGCTCTGGTGTCTTCCCTGGCTGAGACCTGATTCTAAGACTCAGGTAACAGT  
TCAGTACATGCAGGATAATGGTGCAGTCATCCCTGTGCGCATCCACCATCGTCATCTCTGTGCAACAC  
AATGAAGACATCACACTGGAGGCCATGCAAGAGGCCCTGAAAGAGCAGGTGATCAAAGCTGTGGTGCCAG  
CCAAGTACCTGGATGAAGATACTGTTTACCACCTGCAGCCAAGTGGGCGGTTTGTATTGGAGGCCCCCA  
GGGGATGTCAGGTGTACGGGCCGAAGATTATTGTGGACACATACGGAGGCTGGGTGCCATGGTGGT  
GGTGCTTCTCTGAAAGGACTACCAAGGTGGACCGCTCAGCAGCTTATGCTGCCCGTGGGTGGCCA  
AGTCCCTGGTAAAGGCTGGGCTCTGCCGAGAGTGCTTGTTCAGGTGTCTATGCCATTGGTGTGGCAGA  
ACCTCTGTCCATTTCCATCTTACCTACGGACCTCCAATAAGACTGAGCGGGAGCTGCTAGAGGTGGT  
AACAAAGACTTTGACCTTCGGCCTGGTGTATTGTGAGGACTTGGATCTGAAAAACCCATCTACCAGA  
AGACTGCGTGCTACGGCCATTTCCGGAGAAGCGAGTTTCCCTGGGAGGTCCCAAGAAGCTTGTGTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206213 representing NM\_133653  
 Red=Cloning site Green=Tags(s)

MNGPVDGLCDHSLSEEGAFMFTSESVGEGHPDKICDQISDAVLDAHLKQDPNAKVACETVCKTGMVLLCG  
 EITSVAMVDYQRVVRDTIKHIGYDDSAKGFDFKTCNVLVALEQQSPDIAQCVHLDRNEEDVGAGDQGLMF  
 GYATDETEECMPLTIVLAHKLNTRIADLRRSGVLPWLRPDSKTQVTVQYMQDNGAVIPVRIHTIVISVQH  
 NEDITLEAMQEALKEQVIKAVVPAKYLEDDEVYHLQPSGRFVIGGPQGDAGVTGRKIIIVDTYGGWGAHGG  
 GAFSGKDYTKVDRSAAYAARWVAKSLVKAGLCRRVLVQVSYAIGVAEPLSISIFTYGTSNKTERELLELV  
 NKNFDLRPGVIVRDLDLKKPIYQKTACYGHFGRSEFPWEVPKLVF

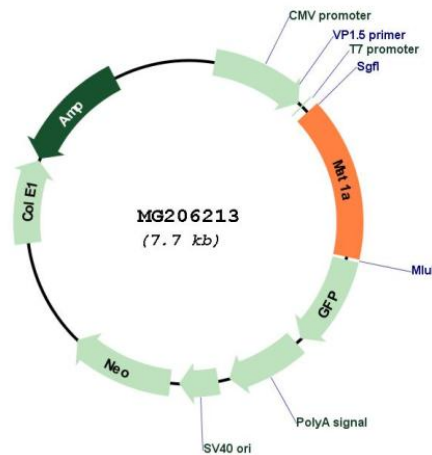
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_133653

<b>ORF Size:</b>	1188 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_133653.3</a>
<b>RefSeq Size:</b>	3208 bp
<b>RefSeq ORF:</b>	1191 bp
<b>Locus ID:</b>	11720
<b>UniProt ID:</b>	<a href="#">Q91X83</a>
<b>Cytogenetics:</b>	14 B
<b>Gene Summary:</b>	This gene encodes a member of the AdoMet synthase family. Methionine adenosyltransferase is a product of this gene (the alpha form) and the beta form and catalyzes the formation of S-adenosylmethionine from methionine and ATP.[provided by RefSeq, Jan 2013]