

## Product datasheet for **MG204961**

### Mat2b (NM\_134017) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mat2b (NM_134017) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mat2b
Synonyms:	1110064C04Rik; 2410018D16Rik; A1182287; AU022853; MAT-II; MATIIbeta; TGR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204961 representing NM_134017 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGGCCGGGAGAAGGAGCTCTCCATCCACTTCGTCCCCGGCTGCTGCCAGCTGGTGGAGGAGGAAG  
TGAACATCCCTAGCCGGCGGGTTCTCATTACTGGTGCCACTGGGTTCTTGCCAGAGCAGTTTACAAAGA  
GTTTCAGCAGAGCAACTGGCACACCGTTGGCTGTGGCTTTCGAAGAGCAAGACCAAATTCGAACAAGT  
AACCTGTTGGATTCTGAAGCTGTTACACCTCATTGATTTCCAGCCTCATGTCATAGTGCATTGTG  
CTGCAGAGAGAAGACCTGATGTTGTTGAGAGTCAGCCAGATGCTGCTTCCAGCTGAATGTGGGTGCCTC  
TGGGAACCTGGCAAAGGAGGCAGCTGCGATTGGAGCATTCTCATCTACATTAGCTCAGATTATGTGTT  
GATGGCACAAATCCCCCTTACACAGAAGAAGATATACCAAGTCCCCTGAATCTATATGAAAAACAAAT  
TAGATGGAGAAAAAGCAGTCTGGAGAATAATTTAGGGGCTGCTGTGTTGAGAATTCCTGTTCTGTATGG  
GGAAGTTGAAAAGCTTGAAGAAAGTGCTGTGACTGTTATGTTTCGACAAGGTGCAGTTCAGCAACAAGTCA  
GCAAACATGGACCATTGGCAGCAGAGGTTCCCCACACATGTGAAAGACGTAGCCAGTGTGTGCCGCGAGC  
TGGCAGAGAAGAGGATGCTGGATCCATCCATTAAGGGAACCTTCACTGGTCTGGCAATGAGCAGATGAC  
CAAGTATGAAATGGCGTGTGCAATTGCAGATGCCTTCAACCTCCCAGCAGCCACTTAAGACCTATTACT  
GACAGTCTGTATAGGAGCACAGCGCCCAAAAATGCTCAGCTCGATTGCTCCAATTTGGAGACGTTGG  
GCATTGGCCAGAGGACACCATTTTCAAGTGAATCAAAGAATCTCTCTGGCCTTCTCATCGACAAGAG  
ATGGAGACAGACTGTCTTTCAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204961 representing NM\_134017  
Red=Cloning site Green=Tags(s)

MVGREKELSIHFVPGCCQLVEEEVNIPSRRLVITGATGLLGRAVYKEFQQSNWHTVGCGRARRPKFEQV  
 NLLDSEAVHHLIHDFQPHVIVHCAAERRPDVVESQPDAASQLNVGASGNLAKEAAAIGAFLLIYISSDYVF  
 DGTNPPYTEEDIPSPLNLYGKTKLDGEKAVLENNLGAAVLRIPVLYGEVEKLEESAVTVMFDKVQFSNKS  
 ANMDHWQQRFPTHVKDVASVCRQLAEKRM LDPSIKGTFHWSGNEQMTKYEMACAIADAFNLPSSHLRPIT  
 DSPVIGAQRPKNAQLDCSKLETLGIGQRTPFRTGIKESLWPFLIDKRWRQTVFH

TRTRPLE - GFP Tag - V

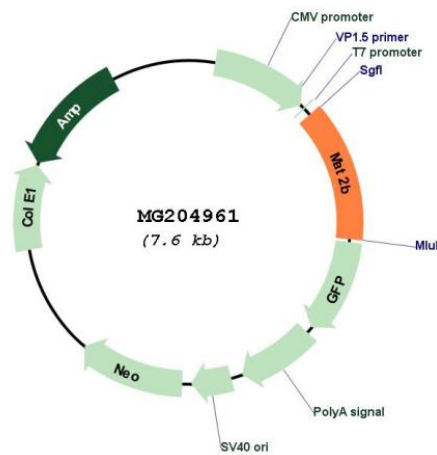
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_134017

**ORF Size:** 1002 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_134017.2</a> , <a href="#">NP_598778.1</a>
<b>RefSeq Size:</b>	1870 bp
<b>RefSeq ORF:</b>	1005 bp
<b>Locus ID:</b>	108645
<b>UniProt ID:</b>	<a href="#">Q99LB6</a>
<b>Cytogenetics:</b>	11 A5
<b>Gene Summary:</b>	Regulatory subunit of S-adenosylmethionine synthetase 2, an enzyme that catalyzes the formation of S-adenosylmethionine from methionine and ATP. Regulates MAT2A catalytic activity by changing its kinetic properties, increasing its affinity for L-methionine. Can bind NADP (in vitro).[UniProtKB/Swiss-Prot Function]