

Product datasheet for **MC227033**

Mat2b (NM_001199274) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mat2b (NM_001199274) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mat2b
Synonyms: 1110064C04Rik; 2410018D16Rik; A1182287; AU022853; MAT-II; MATIIbeta; TGR
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227033 representing NM_001199274
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGAAATGCCGGAGGCCATGGAACAGGAGGAAGTGAACATCCCTAGCCGGCGGGTTCATTACTG
 GTGCCACTGGGCTTCTTGGCAGAGCAGTTTACAAAGATTTTCAGCAGAGCAACTGGCACACCGTTGGCTG
 TGGCTTTGCAAGAGCAAGACAAAATTCGAACAAGTGAACCTGTTGGATTCTGAAGCTGTTTCATCACCTC
 ATTCATGATTTCCAGCCTCATGTATAGTGCATTGTGCTGCAGAGAGAAGACCTGATGTTGTTGAGAGTC
 AGCCAGATGCTGCTTCCAGCTGAATGTGGGTGCCTCTGGGAACCTGGCAAAGGAGGCAGCTGCGATTGG
 AGCATTCTCATCTACATTAGCTCAGATTATGTGTTTGTATGGCACAATCCCCCTTACACAGAAGAAGAT
 ATACCAAGTCCCCTGAATCTATATGGAAAAACAAAATTAGATGGAGAAAAAGCAGTCCTGGAGAATAATT
 TAGGGGCTGCTGTGTTGAGAATTCCTGTCTGTATGGGGAAGTTGAAAAGCTTGAAGAAAGTGTGTGAC
 TGTTATGTTGACAAGGTGCAGTTCAGCAACAAGTCAGCAACATGGACCATTGGCAGCAGAGGTTCCCC
 ACACATGTGAAAGACGTAGCCAGTGTGTCCGGCAGCTGGCAGAGAAGAGGATGCTGGATCCATCCATTA
 AGGGAACCTTTCACTGGTCTGGCAATGAGCAGATGACCAAGTATGAAATGGCGTGTGCAATTGCAGATGC
 CTTCAACCTCCCCAGCAGCCACTTAAGACCTATTACTGACAGTCCTGTATAGGAGCACAGCGCCCCAAA
 AATGCTCAGCTCGATTGCTCCAAATGGAGACGTTGGGCATTGGCCAGAGGACACCATTTGAACTGGAA
 TCAAAGAATCTCTGGCCTTCTCATCGACAAGAGATGGAGACAGACTGTCTTTCATT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001199274
Insert Size: 972 bp



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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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001199274.1</u> , <u>NP_001186203.1</u>
RefSeq Size:	2066 bp
RefSeq ORF:	972 bp
Locus ID:	108645
UniProt ID:	<u>Q99LB6</u>
Cytogenetics:	11 A5
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) contains an alternate first exon which includes different sequence for the 5' coding region, compared to variant 1. The resulting protein (isoform 2) has a distinct and shorter N-terminus when it is compared to isoform 1.</p>