

Product datasheet for MR229244

Mat2b (NM_001199274) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mat2b (NM_001199274) Mouse Tagged ORF Clone
Tag: Myc-DDK
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
ORF Nucleotide Sequence: >MR229244 representing NM_001199274
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGAAATGCCGGAGGCCATGGAACAGGAGGAAGTGAACATCCCTAGCCGGCGGTTCTCATTACTG
 GTGCCACTGGCTTCTTGGCAGAGCAGTTTACAAAGAGTTTCAGCAGAGCAACTGGCACACCGTTGGCTG
 TGGCTTTCGAAGAGCAAGACAAAATTCGAACAAGTGAACCTGTTGGATTCTGAAGCTGTTTCATCACCTC
 ATTCATGATTTCCAGCCTCATGTCATAGTGCATTGTGCTGCAGAGAGAAGACCTGATGTTGTTGAGAGTC
 AGCCAGATGCTGCTTCCAGCTGAATGTGGGTGCCTCTGGGAACCTGGCAAAGGAGGCAGCTGCGATTGG
 AGCATTCTCATCTACATTAGCTCAGATTATGTGTTTGTATGGCACAAATCCCCCTTACACAGAAGAAGAT
 ATACCAAGTCCCCTGAATCTATATGGAAAAACAAAATTAGATGGAGAAAAAGCAGTCCTGGAGAATAATT
 TAGGGGCTGCTGTGTTGAGAATTCCTGTCTGTATGGGGAAGTTGAAAAGCTTGAAGAAAGTGTGTGAC
 TGTTATGTTTCGACAAGGTGCAGTTCAGCAACAAGTCAGCAACATGGACCATTGGCAGCAGAGGTTCCCC
 ACACATGTGAAAGACGTAGCCAGTGTGTCCGGCAGCTGGCAGAGAAGAGGATGCTGGATCCATCCATTA
 AGGGAACCTTTCCTGGTCTGGCAATGAGCAGATGACCAAGTATGAAATGGCGTGTGCAATTGCAGATGC
 CTTCAACCTCCCCAGCAGCCACTTAAGACCTATTACTGACAGTCTGTGATAGGAGCACAGCGCCCCAAA
 AATGCTCAGCTCGATTGCTCCAAATTGGAGACGTTGGGCATTGGCCAGAGGACACCATTTGAACTGGAA
 TCAAAGAATCTCTGGCCTTCTCATCGACAAGAGATGGAGACAGACTGTCTTTCAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229244 representing NM_001199274
 Red=Cloning site Green=Tags(s)

MPMEPEAMEQEEVNIPSRRLVITGATGLLGRAVYKEFQQSNWHTVGCGRARRPKFEQVNLDDSEAVHHL
 IHDFQPHVIVHCAAERRPDVVESQPDAASQLNVGASGNLAKEAAAIGAFLIYISSDYVFDGTPPYTEED
 IPSPLNLYGKTKLDGEKAVLENNLGAAVLRIPVLYGEVEKLEESAVTVMFDKVQFSNKSANMDHWQQRFP
 THVKDVASVCRQLAEKRMLDPSIKGTFHWSGNEQMTKYEMACAIADAFNLPSSHLRPITDSPVIGAQRPK
 NAQLDCSKLETLGIGQRTPFRTGIKESLWPFLLIDKRWRTVVFH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

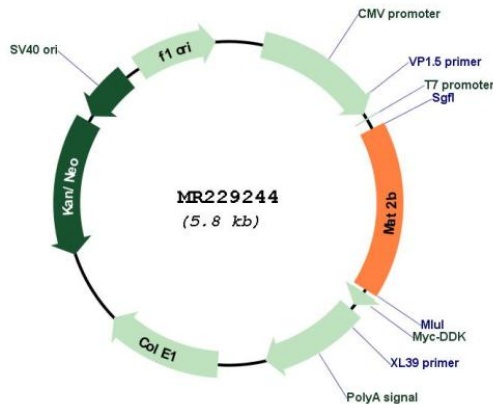
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001199274

ORF Size: 969 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:	<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:	NM_001199274.1 , NP_001186203.1
RefSeq Size:	2066 bp
RefSeq ORF:	972 bp
Locus ID:	108645
UniProt ID:	Q99LB6
Cytogenetics:	11 A5
MW:	36.7 kDa
Gene Summary:	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]