

Product datasheet for **RR207369**

Mat2b (NM_001044282) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Mat2b (NM_001044282) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Mat2b
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR207369 representing NM_001044282
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGGCCGTGAGAAGGAGCTCTCCATCCATTTTCGTCCTCCCGGCTGCTGCCAGCTGGTGGAGGAGGAAG
 TGAACATCCCTAGCCGGCGGGTTCTCATTACCGGTGCCACTGGCTTCTTGCCAGAGCGGTTTACAAGA
 GTTTCAGCAGAGCAACTGGCAGCGGTTGGCTGTGGCTTTCGCAGAGCAAGACAAAATCGAACAGGTG
 AACCTGCTGGATTCTGAGGCAGTTCATCACCTCATTGATTTTCAGCCTCACGTCATAGTGCAGTGTG
 CTGCAGAGAGAAGACCAGATGTTGTTGAGAGTCAGCCAGATGCTGCTTCCAGCTGAATGTGGGTGCCTC
 TGGAACTTAGCAAAGGAGGAGCTGCAATTGGAGCATTCTCATCTACATTAGCTCAGATTATGTGTTT
 GATGGCACAAATCCCCTTACACAGAAGAAGATATACCAAGTCCCCTGAATCTGTACGGAAAAACAAAGT
 TAGATGGAGAAAAGCGGTCTGGAGAATAATTTAGGGGCTGCTGTGTTGAGAATTCCTGTTCTGTATGG
 GGAGGTTGAAAAGCTTGAAGAAAGTGCCGTGACTGTTATGTTTCGACAAGGTGCAGTTCAGCAATAAGTCA
 GCGAACATGGACCATTGGCAGCAGAGATCCCCACACATGTGAAAGACGTAGCCAGTGTGTCCCGGCAGC
 TGGCAGAGAAGAGGATGCTGGATCCATCCATTAAGGGAACCTTTCAGTGGTCTGGCAATGAGCAGATGAC
 CAAGTATGAAATGGCGTGTGCAATTGCAGACGCCTTCAACTCCCAGCAGCCACTTACGACCTATTACT
 GACAGCCCTGTATAGGAGCACACGCCCCAAAAATGCTCAGCTTATTGCTCCAAATTGGAGACCTTGG
 GCATTGGCCAGCGGACACCATTTGCAATTGGAATCAAAGAATCACTCTGGCCTTCTCATCGACAAGAG
 ATGGAGACAGACTGTCTTTCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR207369 representing NM_001044282
 Red=Cloning site Green=Tags(s)

MVGREKELSIHFVPGCCQLVEEEVNIPSRRLITGATGLLGRAVYKEFQQSNWHAVGCGFRRARPKFEQV
 NLLDSEAVHHLIHDFQPHVIVHCAAERRPDVVESQPDAAASQLNVGASGNLAKEAAAIGAFLLIYSSDYVF
 DGTNPPYTEEDIP SPLNLYGKTKLDGEKAVLENNLGAAVLRIPVLYGEVEKLEESAVTVMFDKVQFSNKS
 ANMDHWQQRFP THVKDVASVCRQLAEKRMLDPSIKGTFHWSGNEQMTKYEMACAIADAFNLPSSHLRPIT
 DSPVIGAQRPKNAQLDCSKLET LGIGQRTPFPRIGIKESLWPFLIDKRWRQTVFH

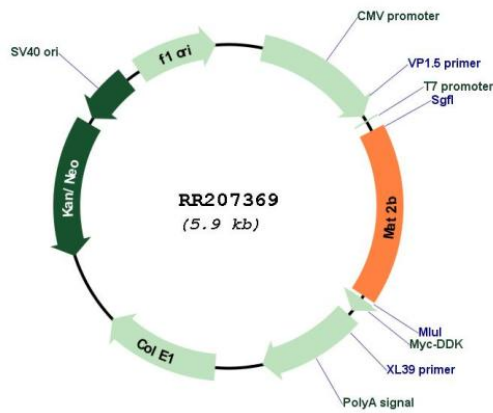
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001044282

ORF Size:	1002 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_001044282.1 , NP_001037747.1
RefSeq Size:	1816 bp
RefSeq ORF:	1005 bp
Locus ID:	683630
UniProt ID:	Q5U2R0
Cytogenetics:	10q12
MW:	37.4 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]