

Product datasheet for **MG206170**

Mat2a (NM_145569) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mat2a (NM_145569) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mat2a
Synonyms:	D630045P18Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206170 representing NM_145569 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACGGGCAGCTCAACGGCTTCCACGAGGCGTTCATTGAGGAGGGGACGTTCTTCACTTCCGAGT
CTGTAGGGGAAGGTCACCCAGATAAGATTTGTGACCAAATCAGTGATGCTGTCCTTGATGCACACCTTCA
ACAAGACCCTGATGCTAAAGTGGCTTGTGAAACTGTTGCTAAAAGTGAATGATTCTTCTGCTGGGGAA
ATTACATCCAGAGCTGCCATTGATTACCAGAAAGTGGTTCGTGAAGCCATAAAGCACATTGGATATGATG
ACTCTTCAAAGGTTTGACTACAAGACTTGTAAATGTGTTGGTTGCCTTGAACAACAGTCACCAGATAT
TGCCCAAGGTGTTTCATCTTGACCGAATGAGGAAGATATTGGTGCAGGAGACCAGGGTTTGTATGTTGGT
TATGCCACTGATGAAACTGAAGAGTGTATGCCTTTAACCATTGTCTTAGCACACAAGCTAAATGCCAAAT
TGGCTGAACACGCCGAATGGTACATTGCCTTGGTTACGCCAGATTCTAAAAGTCAAGTGACTGTGCA
ATATATGCAAGATCGGGGTGCTGTGCTCCCATCAGAGTCCACACGATTGTTATATCTGTTGAGCAGCAT
GAAGAAGTTTGTCTTGATGAGATGAGGGATGCTCTGAAGGAGAAAGTGAAGGCTGTTGTACCTGCAA
AATACCTTGATGAGGATAACAATTTACCACCTACAGCCAAGTGGCAGATTTGTTATTGGTGGGCTCAGGG
TGATGCTGGCCTGACTGGCCGAAAAATCATTGTGGATACTATGGCGTTGGGGAGCTCATGGAGGAGGG
GCCTTTTCAGGAAAGGATTATACCAAAGTGGACCGTTCAGTCTTATGCTGCTCGTTGGTGGCAAAAT
CCCTTGTAAAGGAGTCTGTGCAGGAGGTTCTTGTTCAGGTCTTATGCTATTGGAGTTTCTCATCC
ATTGTCGATCTCCATTTCCATTATGGCACTTCTCAGAAGAGTGAGAGAGCTATTAGAAATTGTAAGG
AAGAATTTGATCTTCGCCCTGGGGTATTGTGACGGGATCTGGATCTGAAGAAGCCAATTTATCAGAGGA
CTGCAGCCTATGGCCACTTTGGTAGGGACAGCTTCCCATGGGAAGTGCCCAAAAAGCTTAAATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206170 representing NM_145569
Red=Cloning site Green=Tags(s)

MNGQLNGFHEAFIEEGTFLFTSESVGEGHPDKICDQISDAVLDAHLQQDPDAKVACETVAKTGMILLAGE
 ITSRAAIDYQKVVREAIKHIGYDDSSKGFYKTCNVLVALEQQSPDIAQGVHLDRNEEDIGAGDQGLMFG
 YATDETEECMPLTIVLAHKLNAKLAELRRNGTLPWLRPDSKTQVTVQYMQDRGAVLPPIRVHTIVISVQHD
 EEVCLDEMARDALKEKVIKAVVPAKYLDLDEDTIYHLQPSGRFVIGGPQGDAGLTGRKIIVDTYGGWGAHGGG
 AFSGKDYTKVDRSAAYAARWVAKSLVKGGLCRRVLVQVSYAIGVSHPLSISIFHYGTSQKSERELLEIVK
 KNFDLRPGVIVRDLDLKKPIYQRTAAYGHFGRDSFPWEVPKCLKY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145569

ORF Size: 1185 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:

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_145569.5](#)

RefSeq Size: 2804 bp

RefSeq ORF: 1188 bp

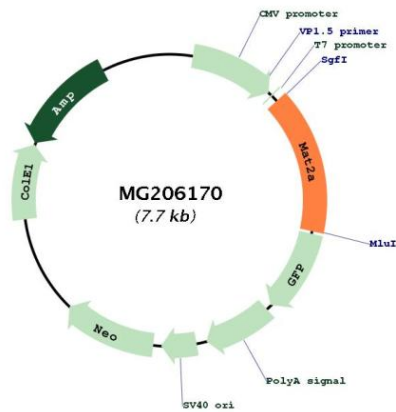
Locus ID: 232087

UniProt ID: [Q3THS6](#)

Cytogenetics: 6 C1

Gene Summary: Catalyzes the formation of S-adenosylmethionine from methionine and ATP. The reaction comprises two steps that are both catalyzed by the same enzyme: formation of S-adenosylmethionine (AdoMet) and triphosphate, and subsequent hydrolysis of the triphosphate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG206170