

Product datasheet for **MC200423**

Mat2a (NM_145569) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mat2a (NM_145569) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mat2a
Synonyms:	D630045P18Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC003451 sequence for NM_145569
 GCAGCCCTCCGCCTCGCCGCCTCTCAGTCTCCTCAGAGTCGCCCTCTCTACCGCCGCCGCATGAACGG
 GCAGCTCAACGGCTTCCACGAGGCGTTCATTGAGGAGGGGACGTTCTCTTCACTTCCGAGTCTGTAGGG
 GAAGGTCACCCAGATAAGATTTGTGACCAAAATCAGTGATGCTGTCTTGTATGCACACCTTCAACAAGACC
 CTGATGCTAAAGTGGCTTGTGAAACTGTTGCTAAAACCTGGAATGATTCTTCTTGTGGGAAATTACATC
 CAGAGCTGCCATTGATTACCAGAAAGTGGTTCGTGAAGCCATAAAGCACATTGGATATGATGACTCTTCC
 AAAGGTTTGTACTACAAGACTTGAATGTGTTGGTTGCCTTGAACAACAGTCACCAGATATTGCCAAG
 GTGTTTCATCTTGACCGAATGAGGAAGATATTGGTGCAGGAGACCAGGGTTTGATGTTTGGTTATGCCAC
 TGATGAAACTGAAGAGTGTATGCCTTTAACATTGTCTTAGCACACAAGCTAAATGCCAAATTGGCTGAA
 CTACGCCGCAATGGTACATTGCCTTGGTTACGCCAGATTCTAAAACCTCAAGTACTGTGCAATATATGC
 AAGATCGGGGTGCTGTGCTTCCCATCAGAGTCCACACGATTGTTATATCTGTTCCAGCAGATGAAGAAGT
 TTGTCTTGATGAGATGAGGGATGCTCTGAAGGAGAAAGTATCAAGGCTGTTGTACTCTGCAAAATACCTT
 GATGAGGATACAATTTACCACCTACAGCCAAGTGGCAGATTTGTTATTGGTGGCCTCAGGGTATGCTG
 GCCTGACTGGCCGAAAAATCATTGTGGATACTTATGGCGTTGGGGAGCTCATGGAGGAGGGCCTTTTC
 AGGAAAGGATTATACCAAAGTGGACCGTTCAGCTGCTTATGCTGCTCGTTGGGTGGCAAAATCCCTTGTT
 AAAGGAGTCTGTGCAGGAGGGTCTTGTTCAGGTCTCTTATGCTATTGGAGTTTCTCATCCATTGTGCA
 TCTCCATTTTCCATTATGGCACTTCTCAGAAGAGTGAGAGAGAGCTATTAGAAATGTAAAGAAGATTT
 TGATCTTCGCCCTGGGGTATTGTGAGGGATCTGGATCTGAAGAAGCCAATTTATCAGAGGACTGCAGCC
 TATGGCCACTTTGGTAGGGACAGCTTCCCATGGGAAGTGCCCAAAAAGCTTAAATATTGAAAGTGTAGC
 CTTTTTCCCCAGACTTGTGGCGTAGGTTACAGAGAAGCCTTCAAGCTCTGAGGGAAAGGGCCTTCTTC
 CTAATTTTTCTGCTCTTTTACGCTCCTGATCAGTTGCAGTCACTCTAATCAATGACATGAATTTTAGC
 TTTTGTGGGGACTGTAAGTTGGGCTTGTCTATTCTGTCCTAGGTGTTTGTTCACCATTATAATGGATA
 TAGTGAGCATAGGTGAGCCATGTAAGTGCCTAGAAACAAACACTGTAGTGAATAATGCTTTGAAATCGAA
 CCTTTGTGCCCTATCACCTAATCCTCAAAAGTCCCTAATTGCAATTACTTTCCACCATGCTGAAAACA
 TCCTTGTAGTGTGCACGTAAGTACTTGTAGTTTACTGTAGACTCTGGCAATGCCACAGCCCTGTGAGC
 ATGAATCTGTAACGCTTGTGAGCTCTATTTATTGAATGTGAAGCCCTGTCTTATCCTCCCTGTAACCTCA
 TTTCTAATTATGTAGTTCTTTATCAGGGAGTGTCTTATCCAATCAATCTTGCATGAAACGAAAGTTTCA
 GTTGGAGCTCTAGCCTGACTTTGAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_145569

Insert Size: 1188 bp

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).

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: [BC003451](#), [AAH03451](#)

RefSeq Size: 1859 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]