

## Product datasheet for **SC324396**

### **MAT2A (NM\_005911) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MAT2A (NM_005911) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAT2A
Synonyms:	MATA2; MATII; SAMS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:**

>OriGene sequence for NM\_005911.4  
 CGCCCGCTGCTACGAGTAGAACGCTGTCCGCAGCTTGCGCATTTCGCAGCCGCTGCCGC  
 CTCGCCGCTGCTCCTTCGTAAGGCCACTTCCGCACACCCGACACCAACATGAACGGACAGC  
 TCAACGGCTTCCACGAGGCGTTCATCGAGGAGGGCACATTCTTTTACCTCAGAGTCGG  
 TCGGGGAAGGCCACCCAGATAAGATTTGTGACCAAAATCAGTGATGCTGCCTTGATGCC  
 ACCTTCAGCAGGATCCTGATGCCAAAGTAGCTTGTGAAACTGTTGCTAAAAGTGGATGA  
 TCCTTCTGCTGGGAAAATTACATCCAGAGCTGCTGTTGACTACCAGAAAGTGGTTCGTG  
 AAGCTGTTAAACACATTGGATATGATGATTCTTCCAAAGTTTTGACTACAAGACTTGTA  
 ACGTGCTGGTAGCCTTGAGCAACAGTCACCCAGATATTGCTCAAGGTGTTTCATCTTGACA  
 GAAATGAAGAAGACATTGGTGCTGGAGACCAGGGCTTAATGTTTGGCTATGCCACTGATG  
 AAAGTGGAGTGTATGCCTTTAACATTGTCTTGGCACACAAGCTAAATGCCAAACTGG  
 CAGAACTACGCCGTAATGGCACTTTGCCTTGGTTACGCCCTGATTCTAAAAGTCAAGTTA  
 CTGTGCAGTATATGCAGGATCGAGGTGCTGTGCTTCCCATCAGAGTCCACACAATTGTTA  
 TATCTGTTGAGCATGATGAAGAGGTTTGTCTTGTGAAATGAGGGATGCCCTAAAGGAGA  
 AAGTCATCAAAGCAGTTGTGCCGCGAAATACCTTGTGAGGATACAATCTACCACCTAC  
 AGCCAAGTGGCAGATTTGTTATTGGTGGCCTCAGGGTGTGCTGGTTTACTGGACGCA  
 AAATCATTGTGGACACTTATGGCGGTTGGGGTGCTCATGGAGGAGGTGCCTTTTCAGGAA  
 AGGATTATACCAAGTTCGACCGTTCAGCTGCTTATGCTGCTCGTTGGGTGGCAAAATCCC  
 TTGTTAAAGGAGGCTGTGCGCGGAGGGTCTTGTTCAGGTCTCTTATGCTATTGGAGTTT  
 CTCATCCATTATCTATCTCCATTTTCCATTATGGTACCTCTCAGAAGAGTGAGAGAGAGC  
 TATTAGAGATTGTGAAGAAGAATTCGATCTCCGCCCTGGGGTTCATTGTCAGGGATCTGG  
 ATCTGAAGAAGCCAATTTATCAGAGGACTGCAGCCTATGGCCACTTTGGTAGGGACAGCT  
 TCCCATTGGGAAGTGCCCAAAAAGCTTAAATATTGAAAGTGTAGCCTTTTTTCCCAGAC  
 TTGTTGGCGTAGGCTACAGAGAAGCCTTCAAGCTCTGAGGGAAAAGGGCCCTCCTTCTAA  
 ATTTTCTGTCTCTTTTCCAGCTCTGACCAAGTTCAGTCACTCTAGTCAATGACATGAAT  
 TTTAGCTTTTGTGGGGACTGTAAGTTGGGCTTGTATTCTGTCCCTAGGTGTTTTGTTT  
 ACCATTATAATGAATTTAGTGAGCATAGGTGATCCATGTAAGTGCCTAGAAAACAACACTG  
 TAGTAAATAATGCTTTGAAATTGAACCTTTGTGCCCTATCACCAACGCTCCAAAGTCAT  
 AATTGCATTGACTTTCCCACCAGATGCTGAAAATGCCTTGTGATGTGCACGTAAGTA  
 CTTGTAGTTCACCTTATAGCCTCTGTCTGGCAATGCCACAGCCCTGTCAGCATGAATTTG  
 TAATGTCTTGAGCTCTATTATGAATGTGAAGCCTTCCCCTTATCCTCCCTGTAACCTGAT  
 CCATTTCTAATTATGTAGCTCTTTGTGAGGAGTGTCCCTATCCAATCAATCTTGCATG  
 TAACGCAAGTTCACAGTTGGAGCTCCAGCCTGACATCAAAAAAGGCAGTTACCATTAAAC  
 CATCTCCCTGGTCTTATGCTCTTAATTGCCACCTCTAACAGCACCAATCAAAATCTCT  
 CCATTTTCCAGCTGCTTTTGGAGGACGTACGTAATAAGGTTTTAATTTAGTAAACCAATC  
 CTATGCATGGTTTCCAGCACTAGCCAAACCTCACCAACTCCTAGTCTAGAAAAACAGGCA  
 CTTGGCAGCCTTGTGATGTCATACAGAGAAGTACAGGGCAGTACCTGAGGGTCTGTAGG  
 TTGCACACTTTGGTACCAGATAACTTTTTTTTTTCTTTATAAGAAAGCCTGAGTACTCCA  
 CACTGCAACAATAACTCCTCCAGGGTTTTAACTTTGTTTTTTTTTCAAAAACAGGTCCAA  
 TGAGCTTTCTGAACAGCTGGTGTAGCTACAGAGAACCAGCTTCCCTTCCAGAGAGCAGTGC  
 TTTTGGCGGGGAGGAGGAATCCCTTCACTTGAACGTTTTTCTAATTGCTTATTTATTG  
 TATTCTGGGGTATGGCGTAAGTACAGAGAAGCCATCACCTCAGATGGCAGCTTTTAAAAG  
 ATTTTTTTTTTTCTCTCAACACCATGATTCCTTTAAACAACATGTTTCCAGCATTCCCAG  
 GTAGGCCAAGGTGCTCTACAGAAAAACCTTGGGTAGACCTACAGGGGGTCTGGCTGGTG  
 TTAACAGAAGGGAGGGCAGAGCTGGTGGGCTGGCCATGGAGAAAGCTGACTTGGCTGGT  
 GTGGTACAGAGAAGCCAGCTTGTTTACATGCTTATCCATGACTGCTTGCCTAAGCAGA  
 AAGTGCCTTTCCAGATCTATTTTGGAGGTTTATTACGTATGCTGGTTCTCAATCCAA  
 CAGTTTAAATGAAGATCTAAATAAAATGCTAGGTTCTACCTTAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_005911

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_005911.4](#), [NP\\_005902.1](#)

**RefSeq Size:** 2835 bp

**RefSeq ORF:** 1188 bp

**Locus ID:** 4144

**UniProt ID:** [P31153](#)

**Cytogenetics:** 2p11.2

**Domains:** S-AdoMet\_synt

**Protein Pathways:** Cysteine and methionine metabolism, Metabolic pathways, Selenoamino acid metabolism

**Gene Summary:** The protein encoded by this gene catalyzes the production of S-adenosylmethionine (AdoMet) from methionine and ATP. AdoMet is the key methyl donor in cellular processes. [provided by RefSeq, Jun 2011]