

## Product datasheet for SC116444

### 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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116444 sequence for NM_005911 edited (data generated by NextGen Sequencing)

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ATGAACGGACAGCTCAACGGCTTCCACGAGGCGTTCATCGAGGAGGGCACATTCCTTTTC
ACCTCAGAGTCGGTCGGGGAAGGCCACCCAGATAAGATTTGTGACCAAATCAGTGATGCT
GTCCTTGATGCCACCTTCAGCAGGATCCTGATGCCAAAGTAGCTTGTGAAACTGTTGCT
AAAACGGAAATGATCCTTCTTGCTGGGAAAATTACATCCAGAGCTGCTGTTGACTACCAG
AAAGTGGTTCTGTAAGCTGTAAACACATTGGATATGATGATTCTTCAAAGGTTTTGAC
TACAAGACTTGTAACTGCTGGTAGCCTTGGAGCAACAGTCACCAGATATTGCTCAAGGT
GTTTCATCTTGACAGAAATGAAGAAGACATTGGTCTGGAGACCAGGGCTTAATGTTTGGC
TATGCCACTGATGAAACTGAGGAGTGTATGCCTTTAACCATTTGCTTGGCACACAAGCTA
AATGCCAAACTGGCAGAACTACGCCGTAATGGCACTTTGCCTTGGTTACGCCCTGATTCT
AAAACCAAGTTACTGTGCAATATATGCAGGATCGAGGTGCTGTGCTTCCATCAGAGTC
CACACAATTGTTATATCTGTTCCAGCATGATGAAGAGGTTTGTCTTGATGAAATGAGGGAT
GCCCTAAAGGAGAAAGTCATCAAAGCAGTTGTGCCTGCGAAATACCTTGATGAGGATACA
ATCTACCACCTACAGCCAAGTGGCAGATTTGTTATTGGTGGGCCTCAGGGTGATGCTGGT
TTGACTGGACGCAAAATCATTGTGGACACTTATGGCGGTTGGGGTGCTCATGGAGGAGGT
GCCTTTTCAGGAAAGGATTATACCAAGGTCGACCGTTCAGCTGCTTATGCTGCTCGTTGG
GTGGCAAAATCCCTTGTAAAGGAGGTCTGTGCCGGAGGGTCTTGTTCAGGTCTCTTAT
GCTATTGGAGTTTCTCATCCATTATCTATCTCCATTTTCCATTATGGTACCTCTCAGAAG
AGTGAGAGAGAGCTATTAGAGATTGTGAAGAAGAATTTTCGATCTCCGCCCTGGGGTCATT
GTCAGGGATCTGGATCTGAAGAAGCCAATTTATCAGAGGACTGCAGCCTATGGCCACTTT
GGTAGGGACAGCTTCCATGGGAAGTGCCCAAAAAGCTTAAATATTGA

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Clone variation with respect to NM\_005911.5



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**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_005911 unedited  
 TTTGTATACGACTCACTATAGGCCGCCGCGATTTCGGCACGAGGGCTACGAGTAGAACGCT  
 GTCCGCAGCTTGCGCATTTTCGACGCCGCTGCCGCTCGCCGCTGCTCCTTCGTAAGGCCA  
 CTTCCGCACACCGACACCAACATGAACGGACAGCTCAACGGCTTCCACGAGGGCTTCATC  
 GAGGAGGGCACATTCTTTTACCTCAGAGTCGGTCGGGAAGGCCACCCAGATAAGATT  
 TGTGACCAAATCAGTGATGCTGTCCTTGATGCCACCTTCAGCAGGATCCTGATGCCAAA  
 GTAGCTTGTGAACTGTTGCTAAAACGGAAATGATCCTTCTTGCTGGGGAAATTACATCC  
 AGAGCTGCTGTTGACTACCAGAAAAGTGGTTCGTGAAGCTGTTAAACACATTGGATATGAT  
 GATTCTTCCAAAAGTTTTGACTACAAGACTTGTAACTGCTGGTAGCCTTGGAGCAACAG  
 TCACCAGATATTGCTCAAGGTGTTTCATCTTGACAGAAATGAAGAAGACATTGGTGTGGA  
 GACCAGGGCTTAATGTTTGGCTATGCCACTGATGAAACTGAGGAGTGTATGCCTTTAACC  
 ATTGTCTTGGCACACAAGCTAAATGCCAACTGGCAGAACTACGCCGTAATGGCACTTTG  
 CCTTGGTTACGCCCTGATTCTAACTCAATTACTGTGCAGATATGCAGGATCGAGGTGCT  
 GTGCTTCCATCAGAGTCACACAATTGTATATCTGTTAGCATGTAAGAAGTTTTGTCTGA  
 TGATGAGGGGATGCCCTAAGGGAGAAGTCTCAAAGCGNGTGGTCTGCGGAATACCTGA  
 TGAGATACATNCTACACCTACAGNCAAGTGGNANATTGTTTATGGC

**3' Read Nucleotide Sequence:** >OriGene 3' read for NM\_005911 unedited  
 ATGCACGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTAGGTAGAACCTAGC  
 ATTTTATTTAGATCTTCATTAACCTGTTGGAATTGAGAACCAGACATACGTAATAAACCT  
 CCAAAAATAGATCCTGAAAGGCACTTTCTGCTTAGGGCAAGCAGTCATGGAATAAGCATG  
 TAAACAAGCTGGCTTCTCTGTACCACACCAGCCAAGTCAGCTTTCTCCATGGCCAGCCGC  
 ACCAGCTCTGCCCTCCCTTCTGTAAACACCAGCCAGACCCCTGTAGGTCTAACCCAAGG  
 TTTTTCTGTAGGACACCTTGGCCTACCTGGGAATGCTGGAACATGTTGTTAAAGGAATC  
 ATGGTGTGAGAGAAAAAAAAAATCTTTTAAAAGCTGCCATCTGAGGTGATGGCTTCT  
 CTGACTTACGCCATACCCAGAAATACAATAAATAAGCAATTAGAAAACGTTCAAGTATG  
 AAGGGATTTCTCCTCCCGCCAAAAGCACTGCTCTCTGAAGGAAGCTGGTTTTCTCTGTA  
 CCTACACCAGCTGTTCAAAAAGCTCATTGGACCTGGTTTTGAAAATAAAACAAAGTTAAA  
 ACCCTGGGAGGAGTTATTGTGCAGTGTGGAGTACTCAGGCTTTCTATAAAGAAAAAAAA  
 AGTTATCTGGTACCAAAGTGTGCACCCTACAGACCCCTCAGTACTGCCCTGTGACTTCTC  
 TGTATGACATACAAGGCTGCCAAGTGCCTGTTTTTCTAGACTAAGAGTTGNTGAGGTTT  
 GCTAGTGTGAAACATGCATAGAATTGGTACTAACTAAAACCTTATACGTACGTCTCCA  
 AAGAAGCTGAAAGTGTAGAGATTTGATTTGCGCTGTTAGAGTGGCATTACGACATATCCC  
 CAGGGAGAGGTTAATGGTACTGCCTCTTTGAGCCAGGCTGAGCTCCACTGGAACCTGGT

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_005911

**Insert Size:** 2820 bp

<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_005911.4</a> , <a href="#">NP_005902.1</a>
<b>RefSeq Size:</b>	2835 bp
<b>RefSeq ORF:</b>	1188 bp
<b>Locus ID:</b>	4144
<b>UniProt ID:</b>	<a href="#">P31153</a>
<b>Cytogenetics:</b>	2p11.2
<b>Domains:</b>	S-AdoMet_synt
<b>Protein Pathways:</b>	Cysteine and methionine metabolism, Metabolic pathways, Selenoamino acid metabolism
<b>Gene Summary:</b>	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]