

Product datasheet for **RG200926**

MAT2A (NM_005911) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAT2A (NM_005911) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAT2A
Synonyms:	MATA2; MATII; SAMS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200926 representing NM_005911 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACGGACAGCTCAACGGCTTCCACGAGGCGTTCATCGAGGAGGGCACATTCTTTTCACCTCAGAGT
CGGTCGGGGAAGGCCACCCAGATAAGATTTGTGACCAAATCAGTGATGCTGTCTTGTATGCCACCTTCA
GCAGGATCCTGATGCCAAAGTAGCTTGTGAAACTGTTGCTAAAAGTGAATGATCCTTCTGCTGGGAA
ATTACATCCAGAGCTGCTGTTGACTACCAAGAGTGGTTCGTGAAGCTGTTAAACACATTGGATATGATG
ATTCTTCAAAGGTTTTGACTACAAGACTTGTAACTGCTGGTAGCCTTGGAGCAACAGTACCAGATAT
TGCTCAAGGTGTTTCATCTTGACAGAAATGAAGAAGACATTGGTGTCTGGAGACCAGGGCTTAATGTTTGGC
TATGCCACTGATGAAACTGAGGAGTGTATGCCTTAAACCATTGTCTTGGCACACAAGCTAAATGCCAAAC
TGGCAGAACTACGCCGTAATGGCACTTTGCCTTGGTTACGCCCTGATTCTAAAAGTCAAGTTACTGTGCA
GTATATGCAGGATCGAGGTGCTGTGCTTCCCATCAGAGTCCACACAATTGTTATATCTGTTCCAGCATGAT
GAAGAGGTTTGTCTTGTGAAATGAGGGATGCCCTAAAGGAGAAAGTCAAGCAAGGAGTTGTGCCTGCGA
AATACCTTGATGAGGATAACAATCTACCACCTACAGCCAAGTGGCAGATTTGTTATTGGTGGGCTCAGGG
TGATGCTGGTTTACTGGACGCAAAATCATTGTGGACACTTATGGCGTTGGGGTGTCTATGGAGGAGGT
GCCTTTTCAGGAAAGGATTATACCAAGGTCGACCGTTCAGCTGCTTATGCTGCTCGTTGGGTGGCAAAAT
CCCTTGTAAAGGAGTCTGTGCCGAGGGTTCTTGTTCAGGTCTTATGCTATTGGAGTTTCTCATCC
ATTATCTATCTCCATTTCCATTATGGTACCTCTCAGAAGAGTGAGAGAGCTATTAGAGATTGTGAAG
AAGAATTCGATCTCCGCCCTGGGGTATTGTCCAGGGTCTGGATCTGAAGAAGCCAATTTATCAGAGGA
CTGCAGCCTATGGCCACTTTGGTAGGGACAGCTTCCCATGGGAAGTGCCCAAAAAGCTTAAATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200926 representing NM_005911
Red=Cloning site Green=Tags(s)

MNGQLNGFHEAFIEEGTFLFTSESVGEGHPDKICDQISDAVLDAHLQQDPDAKVACETVAKTGMILLAGE
 ITSRAAVDYQKVVREAVKHIGYDDSSKGFYKTCNVLVALEQQSPDIAQGVHLDRNEEDIGAGDQGLMFG
 YATDETEECMPLTIVLAHKLNAKLAELRRNGTLPWLRPDSKTQVTVQYMQDRGAVLPPIRVHTIVISVQHD
 EEVCLDEMARDALKEKVIKAVVPAKYLDLDEDTIYHLQPSGRFVIGGPQGDAGLTGRKIIIVDTYGGWGAHGGG
 AFSGKDYTKVDRSAAYAARWVAKSLVKGGLCRRVLVQVSYAIGVSHPLSISIFHYGTSQKSERELLEIVK
 KNFDLRPGVIVRDLDLKKPIYQRTAAYGHFGRDSFPWEVPKCLKY

TRTRPLE - GFP Tag - V

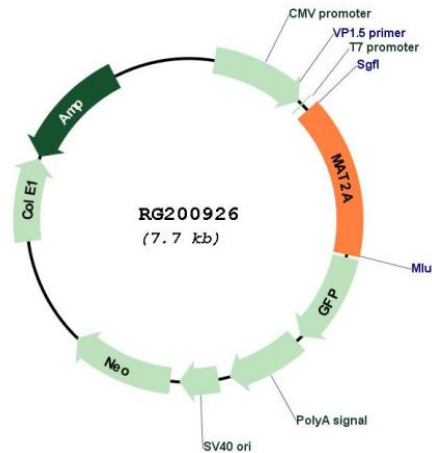
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_005911

ORF Size:	1185 bp
OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_005911.6
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]