

Product datasheet for SC119881

MAT1A (NM_000429) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAT1A (NM_000429) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAT1A
Synonyms:	MAT; MATA1; SAMS; SAMS1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119881 sequence for NM_000429 edited (data generated by NextGen Sequencing)

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ATGAATGGACCGGTGGATGGCTTGTGTGACCCTCTAAGTGAAGGAGTCTTCATGTTCA
ACATCGGAGTCTGTGGGAGAGGGACACCCGGATAAGATCTGTGACCAGATCAGTGATGCA
GTGCTGGATGCCATCTCAAGCAAGACCCCAATGCCAAGGTGGCCTGTGAGACAGTGTGC
AAGACCGGCATGGTGTCTGTGTGGTGTGATCACCTCAATGGCCATGGTGGACTACCAG
CGGGTGGTGGAGGACACCATCAAGCACATCGGCTACGATGACTCAGCCAAGGGCTTTGAC
TTCAAGACTTGCAACGTGCTGGTGGCTTTGGAGCAGCAATCCCCAGATATTGCCAGTGC
GTCCATCTGGACAGAAATGAGGAGGATGTGGGGCAGGAGATCAGGGTTTGATGTTCCGC
TATGCCACCGACGAGACAGAGGAGTGCATGCCCTCACCATCATCCTTGCTCACAAGCTC
AACGCCCCGGATGGCAGACCTCAGGCGCTCCGGCCTCCTCCCTGGCTGCGGCCTGACTCT
AAGACTCAGGTGACAGTTCAGTACATGCAGGACAATGGCGCAGTCATCCCTGTGCGCATC
CACACCATCGTCATCTCTGTGCAGCACAACGAAGACATCACGCTGGAGGAGATGCGCAGG
GCCCTGAAGGAGCAAGTCATCAGGGCCGTGGTGGCCGCAAGTACCTGGACGAAGACACC
GTCTACCACCTGCAGCCAGTGGCGGTTTGTTCATCGGAGGTCCCAGGGGGATGCGGGT
GTCCTGGCCGTAAGATTATTGTGGACACCTATGGCGGCTGGGGGGCTCATGGTGGTGGG
GCCTTCTCTGGGAAGGACTACACCAAGGTGGACCGCTCAGCCGCATATGCTGCCCGCTGG
GTGGCCAAGTCTCTGGTAAAAGCAGGGCTCTGCCGGAGAGTGTGTCCAGGTTTCTAT
GCCATTGGTGTGGCCGAGCCGCTGTCCATTTCCATCTTACCTACGGAACCTCTCAGAAG
ACAGAGCGAGAGCTGCTGGATGTGGTGCATAAGAAGTTCGACCTCCGGCCGGGCGTCATT
GTCAGGGATTTGACTTGAAGAAGCCCATCTACCAGAAGACAGCATGCTACGGCCATTTCC
GGAAGAAGCGAGTTCCATGGGAGGTTCCAGGAAGCTTGTATTTTAG

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Clone variation with respect to NM_000429.2
426 t=>c;870 a=>g;882 t=>c



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000429 unedited</p> <pre> NGTCAGAAATTTTGAATACGACTCACTATAGGGCGGCCGCGCTCAAAATGTTCACTGGAA AAAAGCGTGAGTGGAGAAGTGTGAGAAGATGAATGGACCGGTGGATGGCTTGTGTGACCA CTCTCTAAGTGAAGGAGTCTTCAATGTTACATCGGAGTCTGTGGGAGAGGGACACCCGGA TAAGATCTGTGACCAGATCAGTGATGCAGTGTGGATGCCATCTCAAGCAAGACCCCAA TGCCAAGGTGGCCTGTGAGACAGTGTGCAAGACCGGCATGGTGTCTGTGTGGTGTGAGAT CACCTCAATGGCCATGGTGGACTACCAGCGGGTGGTGGAGGACACCATCAAGCACATCGG CTACGATGACTCAGCCAAGGGCTTTGACTTCAAGACTTGAACGTGCTGGTGGCTTTGGA GCAGCAATCCCCAGATATTGCCAGTGCCTCCATCTGGACAGAAATGAGGAGGATGTGGG GGCAGGAGATCAGGGTTTGTGTTCCGGCTATGCCACCGACGAGACAGAGGAGTGCATGCC CCTCACCATCATCCTTGCTCACAAGCTCAACGCCCGGATGGCAGACCTCANGCGTTCGG CCTCCTNCCCTGGCTGCGGCCTGACTCTAAGACTCANGTGACAGTTCAGTACATGCAGGA CATGGGCGCAGTCATCCCTGTGCGCATNCACACATCGTCATCTGTGCAGCACAACGAA GACATCACGCTGGNAGAGATGCGCANGGCCCTGAGGAGCAGTCATCGGGCCCGTGGNTG CCGNCCAGTACCTGNACGAAGACACCGTCTACCCCTGCAGCCAGTGGNGCGGTTNGTCAT CGGAGGTCCCAGGGGATGGCGGNTGTACTGCCGTAGAATATTGTGGACACTATGGCGGC TGGGGCTATTGGGGGGTGGGGCTCTNCTGGAAGGACTACACAAGTGGACCGTCAACCGCT ATCTGCCCTGGTGGCAGTCTTGNNG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000429 unedited</p> <pre> NAAGGTTTTTACTNTGNNACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTTT TTTAGTTGCTCCTTGAGTTTTTATTCATTGTTTTAGCAGGAATTAACAAATAAAGGC TTTAGTTTCATACAAACAAACTGACAAAAAAGATCTTATTTCTCTAGAGGGTAGGAAAAG TATAAAATTCGAATTTTCATGTGAGTGTGAGCCAAGTTAGAGGAATTTGGCCACCTGC AAACCACTCCCTCCCTCCATGGGAAGGAATCTGAGGCTTCTAGGTGACCAGGAGCCGGG CTTCTTTTGTGCTTAATTTCCCTTTCACCTGAGAGAAAATGAAAGCCAGGGTCTTTGTG CTCCAGGCCAAGGCCAGATGCTGGCTGCCTGCTCCCCAGATGAGACTTCTGGGCTGCC TCTCCCAGCACCATGTACCCTAGAGAGAGGCCAAGTCCCCAGTGTTCCTGGGGCCCAT GGAGGCCCTGCCTGAGCCTGTGGTCTGGGAGCTGGGGAGAGGTANAGATGCTGCTGTC AGAAGTCCAGGCTAAGGACAAGTGGGGCANGTANGGCANGTGTGCTGGCCATGGATGGA AAGGCANNGCAGTTTTCCAGACTTAGCANGCCAAGGACTGCTCANGCCCTTTGGGAGCAG ACCCGCTCCCAGACAGTACCTGGNCAAAGCAGAATCTNCTCATGACGTCTCAAAGCTGT CCGACACCAGAAGGCAGCCCGCCTATTTACATGAGGCCATAGACCAGCCTNCCCTGAT CCCGAAAGGGCACTCACTTCTTCAATGCCTCAGNCTGCAGGGGATACAGGGACCANNGA AAGAGAAAGACTGAGGCCTGTGCTAGGGNGCTGCCTNTGTGCTGGAACAAGTGTGCTC TGCTCCAGAGCCAGATAGACTGGACTGACT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_000429
Insert Size:	3520 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:	<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:	<u>NM_000429.2, NP_000420.1</u>
RefSeq Size:	3419 bp
RefSeq ORF:	1188 bp
Locus ID:	4143
UniProt ID:	<u>Q00266</u>
Cytogenetics:	10q22.3
Domains:	S-AdoMet_synt
Protein Families:	Druggable Genome
Protein Pathways:	Cysteine and methionine metabolism, Metabolic pathways, Selenoamino acid metabolism
Gene Summary:	<p>This gene catalyzes a two-step reaction that involves the transfer of the adenosyl moiety of ATP to methionine to form S-adenosylmethionine and triphosphosphate, which is subsequently cleaved to PPi and Pi. S-adenosylmethionine is the source of methyl groups for most biological methylations. The encoded protein is found as a homotetramer (MAT I) or a homodimer (MAT III) whereas a third form, MAT II (gamma), is encoded by the MAT2A gene. Mutations in this gene are associated with methionine adenosyltransferase deficiency. [provided by RefSeq, Jul 2008]</p>