

Product datasheet for **SC110398**

MAT2B (NM_182796) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAT2B (NM_182796) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAT2B
Synonyms:	MAT-II; MATIIBeta; Nbla02999; SDR23E1; TGR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_182796, the custom clone sequence may differ by one or more nucleotides

```
ATGCCTGAAATGCCAGAGGACATGGAGCAGGAGGAAGTTAACATCCCTAATAGGAGGGTTCTGGTTACTG
GTGCCACTGGGCTTCTTGGCAGAGCTGTACACAAAGAATTTAGCAGAGAATAATTGGCATGCAGTTGGCTG
TGGTTTCAGAAGAGCAAGACCAAATTTGAACAGGTTAATCTGTTGGATTCTAATGCAGTTCATCACATC
ATTCATGATTTTCAGCCCCATGTTATAGTACATTGTGCAGCAGAGAGAAGACCAGATGTTGTAGAAAATC
AGCCAGATGCTGCCTCTCAACTTAATGTGGATGCTTCTGGGAATTTAGCAAAGGAAGCAGCTGCTGTTGG
AGCATTCTCATCTACATTAGCTCAGATTATGATTTGATGGAACAAATCCACCTTACAGAGAGGAAGAC
ATACCAGCTCCCCTAAATTTGTATGGCAAACAAATTAGATGGAGAAAAGGCTGTCCTGGAGAACAATC
TAGGAGCTGCTGTTTTGAGGATTCCTATTCTGTATGGGGAAGTTGAAAAGCTCGAAGAAAAGTGTGTGAC
TGTTATGTTTGATAAAGTGCAGTTCAGCAACAAGTCAGCAAACATGGATCACTGGCAGCAGAGGTTCCCC
ACACATGTCAAAGATGTGGCCACTGTGTGCCGGCAGCTAGCAGAGAAGAGAATGCTGGATCCATCAATTA
AGGGAACCTTTCCTGGTCTGGCAATGAACAGATGACTAAGTATGAAATGGCATGTGCAATTGCAGATGC
CTTCAACCTCCCCAGCAGTCACTTAAGACCTATTACTGACAGCCCTGTCTAGGAGCACAAACGTCGGAGA
AATGCTCAGCTTGACTGCTCCAAATGGAGACCTTGGGCATTGGCCAACGAACACCATTTCGAATTGGAA
TCAAAGAATCACTTTGGCCTTTCCTCATTGACAAGAGATGGAGACAAACGGTCTTTCATTAG
```



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_182796 unedited GGCGTCCAGATTTTGTATACGACTCACTATAGGCGGCCGCGAAATTCGCACGAGCTGCTC CTCACGTTTTGGCGTGCCTGCGCTCTCTGCAGGCAGAAGCGAACAAGACCCAGCAAGAG AAGGCAGAGGCTAAGACCCATCCCGTATCTGCTCTCTGAAATAATTCTGGAGTCATGCC TGAAATGCCAGAGGACATGGAGCAGGAGGAAGTTAACATCCCTAATAGGAGGGTTCTGGT TACTGGTGCCACTGGGCTTCTTGGCAGAGCTGTACACAAAGAATTCAGCAGAATAATTG GCATGCAGTTGGCTGTGGTTTCAGAAGAGCAAGACCAAAATTTGAACAGGTTAATCTGTT GGATTCTAATGCAGTTCATCACATCATTATGATTTTCAGCCCCATGTTATAGTACATTG TGCAGCAGAGAGAAGACCAGATGTTGTAGAAAATCAGCCAGATGCTGCCTCTCAACTTAA TGTGGATGCTTCTGGAAATTTAGCAAAGGAAGCAGCTGCTGTTGGAGCATTCTCATCTA CATTAGCTCAGATTATGATTTGATGGAACAAATCCACCTTACAGAGAGGAAGACATAACC AGCTCCCTAAATTTGTATGGCAAAACAAAATTAGATGGAGAAAAGGCTGTCTGGAGAA CAATCTGGGAGCTGCTGTTTTGAGGATTCCTATTCTGTATGGNNGAAGTAAAAGCTCG AAGAAAGTGCTGTGACTGTTATGTTTGATAAAGTGCAGTTCAGCAACAAGTCAGCAAACA TGGATCACTGGCAGCAGAAGTCCCCACACATGTCAAAGATGTGGCCACTGTGTGCNCGC AGCTAGCAGAGAAGAAATGCTGGATCCATCAATTAGGGAACCTTCACTGGTCTGGCATG AACAGAGACTAAC
Restriction Sites:	NotI-NotI
ACCN:	NM_182796
Insert Size:	2000 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_182796.1</u> , <u>NP_877725.1</u>
RefSeq Size:	2119 bp
RefSeq ORF:	972 bp
Locus ID:	27430
UniProt ID:	<u>Q9NZL9</u>
Cytogenetics:	5q34
Protein Pathways:	Cysteine and methionine metabolism, Metabolic pathways, Selenoamino acid metabolism

Gene Summary:

The protein encoded by this gene belongs to the methionine adenosyltransferase (MAT) family. MAT catalyzes the biosynthesis of S-adenosylmethionine from methionine and ATP. This protein is the regulatory beta subunit of MAT. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2012]

Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region but maintains the reading frame, compared to variant 1. These differences result in a shorter isoform (2) with a distinct N-terminus, compared to isoform 1.