

## Product datasheet for **SC324574**

### **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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_182796.1  
 ACGTTTTGGCGTGCCTGCGCTCTCTGCAGGCAGAAGCGAACAAAGACCCAGCAAGAGAAG  
 GCAGAGGCTAAGACCCATCCCGTATCTGCTCTCCTGAAATAATTCTGGAGTCATGCCTGA  
 AATGCCAGAGGACATGGAGCAGGAGGAAGTTAACATCCCTAATAGGAGGGTTCTGGTTAC  
 TGGTGCCACTGGGCTTCTTGGCAGAGCTGTACACAAAGAATTTGAGCAGAATAATTGGCA  
 TGCAGTTGGCTGTGGTTTCAGAAAGCAAGACCAAAATTTGAACAGGTTAATCTGTTGGA  
 TTCTAATGCAGTTTCATCACATCATTGATTTTTGAGCCCATGTTATAGTACATTGTGC  
 AGCAGAGAGAAGACCAGATGTTGTAGAAAATCAGCCAGATGCTGCCTCTCAACTTAATGT  
 GGATGCTTCTGGGAATTTAGCAAAGGAAGCAGCTGCTGTTGGAGCATTTCTCATCTACAT  
 TAGCTCAGATTATGTATTTGATGGAACAAATCCACCTTACAGAGAGGAAGACATACCAGC  
 TCCCTAAATTTGTATGGCAAAACAAAATTAGATGGAGAAAAGGCTGCTCCTGGAGAACA  
 TCTAGGAGCTGCTGTTTTGAGGATTCTATTCTGTATGGGGAAGTTGAAAAGCTCGAAGA  
 AAGTGCTGTGACTGTTATGTTTGATAAAGTGCAGTTCAGCAACAAGTCAGCAAACATGGA  
 TCACTGGCAGCAGAGTTCCCCACACATGTCAAAGATGTGGCCACTGTGTGCCGGCAGCT  
 AGCAGAGAAGAGAATGCTGGATCCATCAATTAAGGGAACCTTTCACTGGTCTGGCAATGA  
 ACAGATGACTAAGTATGAAATGGCATGTGCAATTGCAGATGCCTTCAACCTCCCCAGCAG  
 TCACTTAAGACCTATTACTGACAGCCCTGTCTAGGAGCACAACGTCCGAGAAATACTCA  
 GCTTGACTGCTCCAAATTTGGAGACCTTGGGCATTGGCCAACGAACACCATTTTGAATTTG  
 AATCAAAGAACTACTTTGGCCTTTCTCATTGACAAGAGATGGAGACAAACGGTCTTTCA  
 TTAGTTTTATTTGTGTTGGGTTCTTTTTTTTTTTTTTAAATGAAAAGTATAGTATGTGGCA  
 CTTTTTAAAGAACAAAGGAAATAGTTTTGTATGAGTACTTTAATTGTGACTCTTAGGATC  
 TTTTCAAGTAAATGATGCTCTTGCAGTAAATTTGCTAAAGAACTAAAGGGCAGTCA  
 TGCCCTGTTTGCAGTAATTTTTCTTTTTATCATTGTTGTTGCTGCTAACTTTGGAGT  
 TTGAGTATAGTAAATTTATGATCCTTAAATTTTGAAGTCAAGGATGAAGCAGATCTGCTG  
 TAGACTTTTTCAGATGAAATTTGTTTATTCTCGTAACTCCATATTTTTCAGGATTTTGAAG  
 CTGTTGACCTTTTTCATGTTGATTATTTTAAATTTGTTGAAATAGTATAAAATCATTGGT  
 GTTCATTATTTGCTTTGCTGAGCTCAGATCAAATGTTTGAAGAAAGGAACTTTATTTT  
 TGCAAGTTACGTACAGTTTTTATGCTTGAGATATTTCAACATGTTATGTATTTGAACT  
 TCTACAGCTTGATGCCTCTGCTTTTATAGCAGTTTATGGGGAGCACTTGAAAGAGCGTG  
 TGTACATGATTTTTTTTCTAGGCAAACATTGAATGCAAACGTGATTTTTTTTAAATAAA  
 ATATAACTGTCCTTTTTCATCCATGTTGCCGCTAAGTATTTTTCATATGTGTGGTTA  
 TACTCATAATAATGGGCCTTGTAAAGCTTTTACCATTTCATGAATAATAATAAATATGTA  
 CTGCTGGCATGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_182796

**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).

**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).

<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_182796.1</a> , <a href="#">NP_877725.1</a>
<b>RefSeq Size:</b>	2119 bp
<b>RefSeq ORF:</b>	972 bp
<b>Locus ID:</b>	27430
<b>UniProt ID:</b>	<a href="#">Q9NZL9</a>
<b>Cytogenetics:</b>	5q34
<b>Protein Pathways:</b>	Cysteine and methionine metabolism, Metabolic pathways, Selenoamino acid metabolism
<b>Gene Summary:</b>	<p>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]</p> <p>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.</p>