

## Product datasheet for **SC324517**

### TFB1M (NM\_016020) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TFB1M (NM\_016020) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** TFB1M  
**Synonyms:** CGI-75; CGI75; mtTFB; mtTFB1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_016020.1  
 GAGCGCGGTGAAGTCTGGGTGAGGTAGGTTGGATGGTGCTTGCCCGTATCATGGC  
 TGCCCTCCGAAAACCTCAGCACTTGCCGTCTCCCTCCGTTGCCACGATTCGAGAAATCAT  
 TAAGTTGTTAAGACTGCAAGCAGCGAAGCAGCTATCACAGAATTTCTCCTGGACTTGAG  
 GCTGACAGATAAGATTGTAAGGAAAGCTGGCAATCTGACAAATGCTTATGTTTACGAAGT  
 GGGCCCTGGCCAGGGGAATCACAAGATCTATTCTTAATGCCGACGTCGCTGAATTCT  
 GGTGGTTGAAAAGGACACTCGATTTATTCTGGATTACAGATGCTTTCTGATGCAGCACC  
 TGGGAACTGAGAATTGTTTCATGGAGATGTCTTGACATTAAGGTAGAAAAGGCTTTTTTC  
 AGAAAGTCTTAAAAGACCCTGGGAAGATGATCCTCCAAATGTACATATTGGAATCT  
 GCCTTTTAGTGTTCACACTCCACTGATTATCAAGTGGCTTGAAAAATTTCTGTAGAGA  
 TGGACCTTTTGTATGGCAGAACTCAGATGACTTTGACTTTTCAAAGGAAGTGGCAGA  
 GAGACTTGCAGCCAATACAGGAAGCAAACAGCGTAGTCGCCTCTCTGTTATGGCTCAGTA  
 CCTCTGCAATGTTTCGACACATCTTTACGATTCCAGGACAAGCTTTTGCCCCAAACCAGA  
 GGTGGACGTGGGCGTGGTGCACCTCACTCCCTTGATACAGCCCAAGATAGAGCAGCCATT  
 CAAGCTGGTGGAAAAAGTGGTTCAGAAATGATTTTCAAGTCCGAAGGAAACTGCCATCG  
 AGGGCTCAGAAATGTTATTCCTGAAGCGCAGCGCTTGAAAGCACGGGCAGGCTGTTAGA  
 GTTGGCAGACATAGACCCTACTTTCGGCCCCGCCAGCTCTCCATCTCACACTTAAAGAG  
 CCTCTGTGATGTATACAGAAAAATGTGTGATGAAGACCCACAACCTTTTGCATATAATTT  
 CAGAGAAGAACTCAAGCGAAGAAAAAGCAAAAAATGAAGAAAAAGAGAGGATGACGCAGA  
 GAATTACAGACTCTAGCTGCTGCCTGGGGCGAGCAGCCTACCAGATGTCGATTTGCACT  
 ACGTGGAGCTTCTATATAGGTAAGTCTTTTGTCTTTACAGAGTGACGATACAAATGCCAA  
 TGACCAGATGTGACTTATTTTCTTTTACTATACAGCTTGGCAGAGAAAAATAATATCAT  
 CAAATAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_016020



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<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>	<u>NM_016020.1, NP_057104.1</u>
<b>RefSeq Size:</b>	1290 bp
<b>RefSeq ORF:</b>	1041 bp
<b>Locus ID:</b>	51106
<b>UniProt ID:</b>	<u>Q8WVM0</u>
<b>Cytogenetics:</b>	6q25.3
<b>Domains:</b>	rADc
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a dimethyltransferase that methylates the conserved stem loop of mitochondrial 12S rRNA. The encoded protein also is part of the basal mitochondrial transcription complex and is necessary for mitochondrial gene expression. The methylation and transcriptional activities of this protein are independent of one another. Variations in this gene may influence the severity of aminoglycoside-induced deafness (AID). [provided by RefSeq, Aug 2010]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>