

Product datasheet for SC311121

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC311121 sequence for NM_016020 edited (data generated by NextGen Sequencing)

```

ATGGCTGCCTCCGAAAACCTCAGCACTTGCCGTCTCCCTCCGTTGCCACGATTCGAGAA
ATCATTAAAGTTGTTAAGACTGCAAGCAGCGAAGCAGCTATCACAGAATTTCTCCTGGAC
TTGAGGCTGACAGATAAGATTGTAAGGAAAGCTGGCAATCTGACAAATGCTTATGTTTAC
GAAGTGGGCCCTGGGCCAGGGGAATCACAAAGTCTATTCTTAATGCCGACGTCGCTGAA
CTTCTGGTGGTTGAAAAGGACACTCGATTTATTCTGGATTACAGATGCTTTCTGATGCA
GCACCTGGGAAACTGAGAATTGTTTCATGGAGATGTCTTGACATTTAAGGTAGAAAAGGCT
TTTTCAGAAAGTCTTAAAAGACCCTGGGAAGATGATCCTCCAAATGTACATATTATTGGA
AATCTGCCTTTTAGTGTTCACACTCCACTGATTATCAAGTGGCTTGAAAAATTTCTGT
AGAGATGGACCTTTTGTATGGCAGAACTCAGATGACTTTGACTTTTCAAAGGAAGTG
GCAGAGAGACTTGCAGCCAATACAGGAAGCAAACAGCGTAGTCGCTCTCTGTTATGGCT
CAGTACCTCTGCAATGTTTCGACACATCTTTACAATTCAGGACAAGCTTTTGCCCCAAA
CCAGAGGTGGACGTGGGCGTGGTGCACCTCACTCCCTTGATACAGCCCAAGATAGAGCAG
CCATTCAGCTGGTGGAAAAAGTGGTTCAGAAATGTATTTCAAGTCCGAAGGAAATACTGC
CATCGAGGGCTCAGAAATGTTATTCCTGAAGCGCAGCGCTTGAAAGCACGGGCAGGCTG
TTAGAGTTGGCAGACATAGACCCTACTCTCGGCCCGCCAGCTCTCCATCTCACACTTT
AAGAGCCTCTGTGATGTATACAGAAAAATGTGTGATGAAGACCCACAACCTTTGCATAT
AATTTTCAGAGAAGAACTCAAGCGAAGAAAAAGCAAAAATGAAGAAAAAGAAGAGGATGAC
GCAGAGAATTACAGACTCTAG

```

Clone variation with respect to NM_016020.3
633 g=>a



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_016020 unedited TACACCCGCCCGTTGTCGCATATGGGCGGTAGGCGGTACGGTGGGCAGGTCTATATAAG CAGAGCTCGTTTGTGAAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGCG AATTCGGCAGGAGTTGCCGCGTATCATGGCTGCCTCCGAAAACCAACTTGGCCGTC TCCCTCCGTTGCCACGATTCGAGAAATCATTAAAGTTGTTAAGACTGCAAGCAGCGAAGC AGCTATCACAGAAATTTCTCTGGACTTGAGGCTGACAGATAAGATTGTAAGGAAAGCTG GCAATCTGACAAATGCTTATGTTTACGAAGTGGGCCCTGGGCCAGGGGAATCACAAGAT CTATTCTTAATGCCGACGTCGCTGAACTTCTGGTGGTTGAAAAGGACACTCGATTTATTC CTGGATTACAGATGCTTTCTGATGCAGCACCTGNGAAACTGAGAATTGTTTCATGGAGATG TCTTGACATTTAAGGTAGAAAAGGCTTTTTTCAGAAAAGTCTTAANAGACCCTGGGAAGATG ATCCTCCAAATGTACATATTATTGGAAATCTGCCTTTTAGTGTTCAACTCCACTGATTA TCAAGTGGCTTGAATAATTTCTGTAGAGATGGACCTTTTTGTTATGGCAGAAGTCAAG ATGACTTTGACTTTTTCAAAGGAAGTGGCAGAGAGACTGCAGCCAATACAGGAAGCANA CAGCGTAATCGCCTCTCTGGTATGGCTCAGTACCTCTGCAATGTTTCGCACATCTTTACAA TTCCAGGACAAGCTTTTGTCCCAAAACAAGGTGAACGTGGCCGTTGGTGCATTTCACTC CCTGATACAGCCAAGATAGAGCAACCATTCAAGCTGGTGGAAAAGTGGTTA
3' Read Nucleotide Sequence:	>Forward primer walk for NM_016020 unedited TCTGAACAACTCTTTGTAGCGGAGCAGCGACACCTTCAGNTGGTGGAAAAGTGGTTCAGA ATGTATTTTCAGTTCGAAAGGAAAACCTGCCATCGAGGGCTCAGAATGTTATTCCTGAAGC GCAGCGCTTGGAAAGCACGGGCAGGCTGTTAGAGTTGGCAGACATAGACCCTACTCTTCG GCCCGCCAGCTCTCCATCTCACACTTTAAGAGCCTCTGTGATGTATACAGAAAAATGTG TGATGAAGACCCACAACCTTTTGCATATAATTTTCAGAGAAGAACTCAAGCGAAGAAAAAG CAAAAATGAAGAAAAAGAAGAGGATGACGCAGAGAATTACAGACTCTAGCTGCTGCTGG GGCGGAGCAGCCTACCAGATGTCGATTTGCACTACGTGGAGCTTCTTATATAGGTAATCT TTTGTCTTTACAGAAATGACGATACAAATGCCAATGACCAGATGTGACTTATTTTCCTTTT ACTATACAGCTTGGCAGAGAAAAATAATATCATCAAATAAGATACAGTACAAGCTTTCTT TTAATATATACTGTATAGATAGATAGATGACATGTTTAGTATAAACAGCATCTATTACAATC TTACAAAAATGAAGTATCTGCACATTTTGGCCCTAAACCACATTAATAAATTAATAT GCTTTAAATAAAGCAAAAACCTAACCAACAGCTGAAAAGAAAAGCCAGGAGGATTAATAA AATGGGCCCTTGAACAACTAATTATCACGAATTTCCAGCCCTAACCTTTTCCCATAACT AAATTATAAAAAATGGAATTTTAAAGGATCCCAATACATTTGATACCGGCCCAAAAGGG GATATAAACCTAAGTAAATTACCAGATTCTGCCGTTTCATCTAAGGTTCTGATCCCA
Restriction Sites:	Please inquire
ACCN:	NM_016020
Insert Size:	1700 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).
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).

Reconstitution Method:

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_016020.1](#), [NP_057104.1](#)

RefSeq Size: 1290 bp

RefSeq ORF: 1041 bp

Locus ID: 51106

UniProt ID: [Q8WVM0](#)

Cytogenetics: 6q25.3

Domains: rADc

Protein Families: Transcription Factors

Gene Summary: 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]

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.