

Product datasheet for **RN210997**

Tfb2m (NM_001008293) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tfb2m (NM_001008293) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tfb2m
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN210997 representing NM_001008293 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGGGGACTGGCGATGAGGCTGCCCCCGGGCTGGCGCTGTCAGTGTGGCGGGCCGGCCCGTCTT
GCATTCTGGGGTCCGGAGCGGCAGCGGAAGGACTGGCAAGAGAGGAACCGCGTAGCTTCTCTGACCT
CTACACTCAACCGTTGCCTGATTGTGATTTTCGAGGAGTGCCTCGTGGACACACAAGAGTCGATCAGAG
CCTACGCGTCACATAGCATGTAAGAAATCGGCCAGGAACCTGGTACGAGACCTGCTGGAGACCAAAACC
CATCCCATCAACTTACTAGAGTGCAATCCAGGTCCAGGAATCCTGACTGGGGCATTACTTAAAGCTGG
TGCCAGAGTGGTTGCCTTTGAAAGTAAAAGATGTTTATTCCACATTTGGAGTCCTAAGGAAGAATGCG
GATGGAGAGTTACAAGTGGTTCCTGACTTCTTTAAAATAGATCCTAGGTATCAGGAGCTAGTACGAC
CGGATGTGAATTCACACACAATTTTCAGAACCTGGGAATAAAAGCAGTTCCTTGGTTCAGCAGGTGTTCC
TATAAAAGTATTTGGAATCTACCAAATAAACATGAAAGACGATTGCTTTGGAAAATCCTGTTTGATCTG
TACTCCTGCGAATCTATACAGATATGGACGAGTAGAACTGAATATGTTTCATTAGTGAAAAAGAATTCC
GGAAACTAATAGCAACTCCTAAAAGGCCAGATTTATATCAAGTATTGGGTGTGCTTTGGCAAGTGGCTTG
TGAAATTAAGTTTCTGCACATGGAGCCTTGGTCTGATTTAGTGTGCATGCCGAAAATGGGCACTTGAA
AAGTCAAAGCACTCGGAATCATTAAATTTACTGAAACAAAACCTATATCTTGTTGCAATGACTCCTCGTA
GGACATATTTACAGAAAACCTAAGTCCTTTGAACTATGATATGTTTTCCACTTGGTAAAGCACTGCTT
TGGGAAACGCAATGCCCAATAATACACCATTTACGTTCCCTGAGTACGGTTGACCCCATTAATACTA
AGGCAGATAAGGAAAAGACCTGGAGACACGGCTGCTAAAATGTATCCTCAGCACTTCAAAGACTTTTTG
AAACTATAGAACGTTCAGAAGACTCTGTCTTTAAATGGATCTATGACTACTGCTCGGACGACAGTGAGCT
CTAG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII



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ACCN:	NM_001008293
Insert Size:	1194 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_001008293.1</u> , <u>NP_001008294.1</u>
RefSeq Size:	2092 bp
RefSeq ORF:	1194 bp
Locus ID:	289307
UniProt ID:	<u>Q5U2T7</u>
Cytogenetics:	13q26
Gene Summary:	S-adenosyl-L-methionine-dependent methyltransferase which specifically dimethylates mitochondrial 12S rRNA at the conserved stem loop. Also required for basal transcription of mitochondrial DNA, probably via its interaction with POLRMT and TFAM. Stimulates transcription independently of the methyltransferase activity (By similarity).[UniProtKB/Swiss-Prot Function]