

Product datasheet for **RR210997**

Tfb2m (NM_001008293) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tfb2m (NM_001008293) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tfb2m
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210997 representing NM_001008293 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGGGGACTGGCGATGAGGCTGCCCCCGGGCTGGCGCTGTCAGTGTGGCGGGCCGGCCCGTCTT
GCATTCTGGGGTCCGGAGCGCGACGCGGAAGGACTGGCAAGAGAGGAACCGCGTAGCTTCTCTGACCT
CTACACTCAACCGTTGCCTGATTGTGATTTTCGAGGAGTCGTCTCGTGGACACACAAGAGTCGATCAGAG
CCTACGCGTCACATAGCATGTAAGAAATCGGCCAGGAACCTGGTACGAGACCTGCTGGAGACCAAAAACC
CATCCCATCAACTTACTAGAGTGCAATCCAGGTCCAGGAATCCTGACTGGGGCATTACTTAAAGCTGG
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GATGGAGAGTTACAAGTGGTTCCTGACTTCTTTAAAATAGATCCTAGGTATCAGGAGCTAGTACGAC
CGGATGTGAATTCACACACAATTTTCAGAACCTGGGAATAAAAGCAGTTCCTTGGTCAGCAGGTGTTCC
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GGAAACTAATAGCAACTCCTAAAAGGCCAGATTTATATCAAGTATTGGGTGTGCTTTGGCAAGTGGCTTG
TGAAATTAAGTTTCTGCACATGGAGCCTTGGTCGTCAATTAAGTGTGCATGCCGAAAATGGGCACTTGAA
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AGGCAGATAAGGAAAAGACCTGGAGACACGGCTGCTAAAATGTATCCTCAGCACTTCAAAGACTTTTTG
AAACTATAGAAGTTCAGAAGACTCTGTCTTTAAATGGATCTATGACTACTGCTCGGACGACAGTGAGCT
C

AG**GCGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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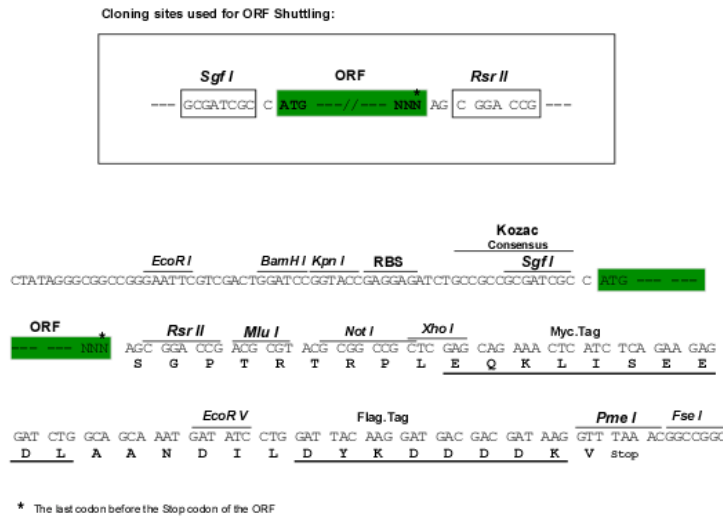
Protein Sequence: >RR210997 representing NM_001008293
Red=Cloning site Green=Tags(s)

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 PTRHIACKKSARNLVRDLLEHQNPShQLILECNPGGILTGALLKAGARVVAFESEKMFIPHLES LRKNA
 DGELQVVHCDFFKIDPRYQELVRPDVNSHTIFQNLGIKAVPWSAGVPIKVFILPNKHERRLLWKILFDL
 YSCESIYRYGRVELNMFISEKEFRKLIATPKRPDLVQVLGVLWQVACEIKFLHMEPWSSFSVHAENHLE
 KSKHSESLNLLKQNLVLRMTPrRRTLF TENLSPLNYDMFFHLVKHCFGKRNAPIIHHLRSLSTVDPINIL
 RQIRKRPGDTAAKMPHDFKRLFETIERSEDSVFKWIYDYCSDDSEL

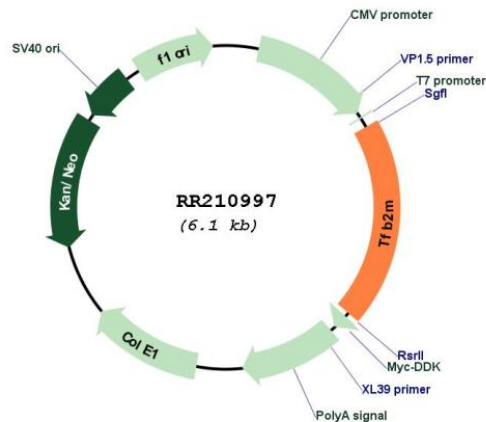
SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001008293

ORF Size:	1191 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001008293.1 , NP_001008294.1
RefSeq Size:	2092 bp
RefSeq ORF:	1194 bp
Locus ID:	289307
UniProt ID:	Q5U2T7
Cytogenetics:	13q26
MW:	46 kDa
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]