

Product datasheet for SC112537

TFB2M (NM_022366) Human Untagged Clone

Product data:

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|---------------------------|---------------------------------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | TFB2M (NM_022366) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | TFB2M |
| Synonyms: | Hkp1; mtTFB2 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC112537 sequence for NM_022366 edited (data generated by NextGen Sequencing) |

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ATGTGGATCCCAGTGGTCGGGCTTCCTCGCGCGCTGAGGCTCTCCGCCTTGGCGGGCGT
GGTCGCTTTTGCATTTTAGGGTCTGAAGCGGCGACGCGAAAGCATTTCGCCGCGAGGAAC
CACTGTGGGCTCTCTGACTCCTCTCCGACGCTGTGGCCGAACCGGATTTTCAGGAATCCG
CCAAGGAAGGCGTCTAAGGCCAGCTTAGACTTTAAGCGTTACGTAACCGATCGGAGATTG
GCTGAGACCCTGGCGCAAATCTATTTGGGAAAACCAAGTAGACCTCCACACCTACTGCTG
GAGTGCATCCAGGTCTGGAATCCTGACTCAGGCATTACTTGAAGCTGGTGCCAAAGTG
GTTGCGCTCGAAAGTGACAAAACTTTTATTCCACATTTGGAGTCTTAGGAAAAATCTG
GATGGAAAACACGAGTGATTCACTGTGACTTCTTTAACTAGATCCTAGAAGTGGTGGA
GTAATAAAACACCTGCTATGTCTTCTCGAGGGCTCTTTAAGAATTTGGGAATAGAAGCA
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AAAAGGGCACTTTGGAACTCGCATATGACTTGTATTCCTGTACTTCTATATATAAATTT
GGACGAATAGAAGTAAATATGTTTATTGGTGAAAAAGAATTCCAGAACTAATGGCAGAT
CCCGGAAATCCAGACTTGTATCATGATTAAGTGTATCTGGCAATTAGCTTGTGAGATT
AAGGTTCTGCACATGGAGCCTTGGTCATCATTTGATATATACACCCGAAAGGGCCGCTG
GAAAACCCAAAGCGTAGGGAATTATTAGACCAATTACAACAAAAGCTGTATCTTATTCAA
ATGATTCCTCGTCAAAATTTATTTACCAAGAACTTAACACCTATGAACATAAATATTTT
TTTCACCTGTTAAAGCACTGTTTCGGGAGGCGCAGGCCACTGTAATAGACCACCTACGT
TCATTGACTCCACTTGTGCGAGAGATATATTGATGCAAATAGGAAAACAGGAGGATGAG
AAAGTAGTTAACATGCACCCTCAAGACTTCAAAACACTTTTTGAAACTATAGAGCGTTCC
AAAGATTGTGCTTATAAATGGCTGTATGATGAAACCCTGGAAGATAGGTAG

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Clone variation with respect to NM_022366.2
984 t=>c



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022366 unedited
 GCGATTGTATACGACTCTATAGGCGGCCGCAATTCGGCACGAGGGTGGGATACCCTGC
 GTGGGGTTCACCTGTAGTACTGACTAGGTGATTCTTGGAGCGGGCCTGAGAGACAAGGA
 CATGTGGATCCCAGTGGTCGGGCTTCTCGGCGGCTGAGGCTCTCCGCTTGGCGGGCGC
 TGGTCGCTTTTGCATTTTAGGGTCTGAAGCGGCGACGCGAAAGCATTGGCCGGCAGGAA
 CCACTGTGGGCTCTGACTCCTCTCCGCAGCTGTGGCCGAACCGGATTTCCAGGAATCC
 GCCAAGGAAGGCGTCTAAGGCCAGCTTAGACTTTAAGCGTTACGTAACCGATCGGAGATT
 GGCTGAGACCCTGGCGCAAATCTATTTGGGAAAACCAAGTAGACCTCCACACCTACTGCT
 GGAGTGCAATCCAGTCTCTGGAATCCTGACTCAGGCATTACTTGAAGCTGGTGCCAAAGT
 GGTGCGCTCGAAAGTGACAAAACCTTTTATTCCACATTTGGAGTCTTAGGAAAAAATCT
 GGATGGAAAACACGAGTGATTCACCTGTGACTTCTTAACTAGATCCTAGAAGTGGTG
 AGTAATAAAAACCACTGCTATGTCTTCTCGAGGGCTCTTAAAGATTTGGGAATAGAAGC
 AGTTCCTTGGACAGCAGACATCCCTTTAAAAGTAGTTGGAATGTTCCAAGTAGAGGTGA
 GAAAAGGGCACTNTGGAACTCGCATATGACTTGTATTCTGTACTTCTATATATAAATT
 TGGACGAATAGAAGTAAATATGTTTATTGGTGA AAAAGATTCCAGAACTAATGCGAGAT
 CCCCAGGAATCCAGACCTGNATCATGTATTAAGTGGTATCTGGGCAANTAGCTGTGAGAAT
 AAAGGTCTGCACATGGNACCCTNGNTCATCACTTGATATATACCCCGNNAAGGGCCGCT
 GAAAACCCNAAGCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022366 unedited
 GAACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAATTGAAGTTTTCA
 TTTTATTTAATTGTAATAAAAATAGCAGACACTGTTTCATCCAATAAGCCAATGATATCA
 GCTTAGGAGAAAATGATCTGCCTGGCTTGTGCAAGACAAGAACAGTTACCTTCTGCTGAAA
 GGATGTGAGTTTTCAAATTTGGTTTTTCATGTCATAGTTTCCAAATAAATGAACCGTCCA
 CAAAAACGCAGCTCTAGTTGCTACCTATCTTCCAGGGTTTCATCATACAGCCATTTATA
 AGCACAATCTTTGGAACGCTCTATAGTTTCAAAAAGTGTGTTTGAAGTCTTGAGGGTGCAT
 GTTAACTACTTTCTATCCTCCTGTTTTCTATTTGCATCAATATATCTCTCGCATCAAG
 TGGAGTCAATGAACGTAAGTGGTCTATTACAGTGGCGCTGCGCCTCCCGAAACAGTGCTT
 TAACAAGTGAAAAAATATATTATAGTTCATAGGTGTTAAGTCTTGGTAAATAAATTTTG
 ACGAGGAATCATTTGAATAAGATACAGCTTTTGTGTAATTGGTCTAATAAATCCCTACG
 CTTTGGGTTTTCCAGCGGCCCTTTCCGGGTGTATATATCAAATGATGACCAAGGCTCCAT
 GTGCAGACCCTTAATCTCACAAGCTAATTGCCAGATAACACTTAATACATGATACAAGTC
 TGGATTTCCGGGATCTGCCTTAATTTCCCTGAATCTTTTTACCAATAAACATATTTACT
 TCTATTCGTTCAATTTATTATAGAAGTCAGGAATCCCAGTCATATGCCAGTTTCCAAGCG
 CCCTTTTTACCTTACTTGGACCATCCCACTACTTTTAAAGNATGTTTGTGCTGCCAAGT
 ACTGCTTTATTCCAATTCTAAGAGCCTCGAAACACCTACAGGG

Restriction Sites:

NotI-NotI

ACCN:

NM_022366

Insert Size:

1560 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).

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| 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_022366.1, NP_071761.1</u> |
| RefSeq Size: | 1803 bp |
| RefSeq ORF: | 1191 bp |
| Locus ID: | 64216 |
| UniProt ID: | <u>Q9H5Q4</u> |
| Cytogenetics: | 1q44 |
| Domains: | rADc |
| Protein Families: | Transcription Factors |
| 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. Compared to TFB1M, it activates transcription of mitochondrial DNA more efficiently, while it has less methyltransferase activity.[UniProtKB/Swiss-Prot Function] |