

## Product datasheet for **SC126245**

### ETFBKMT (NM\_173802) Human Untagged Clone

#### Product data:

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                      |
| Product Name:      | ETFBKMT (NM_173802) Human Untagged Clone |
| Tag:               | Tag Free                                 |
| Symbol:            | ETFBKMT                                  |
| Synonyms:          | C12orf72; ETFB-KMT; METTL20              |
| Vector:            | <u>pCMV6-XL5</u>                         |
| E. coli Selection: | Ampicillin (100 ug/mL)                   |
| Cell Selection:    | None                                     |



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_173802 edited
GCCGCGAGGGGCCGCGTCCGTCCCGCCCCCTGCCGGCCGCGGCGCTCTGCTAGAGCGT
GGCTCAGTTTTGGTAGCGGGACCCCGGAAATGTAAGCATGAGCGGGAACAGTCGCCAGG
GCGAGTGACAGGCGAGCCCTATGCTTTACTTCCGAGGGCGGTGTCAGCAAAGCTAGAGTC
AGAGGTTCCGGTTGAGATCAAGTTGGGAGACACACCCTTGTTTCATTCTCCTTGAGAAGCA
GCTATTATCAACAGAACATTGACAGAACCTGTGTTTGGGAAAGGACTGATGGCTTTGAG
TCTAGGTTGAAAGCACACAGGAACCACTGTGGTCTCCTTTCAGGCTCTGCGAAGCAG
TGGTCTTCTCTTGTTCCTGTGGCCAGTGTCCCTGGAGAGGAGCTGGAAGCTTTTTGGA
CCCTGAGATAAAGGCTTTCCTGGAGGAGAACAACACTGAAGTCACCAGCAGTGGTAGCCTCAC
CCCTGAAATCCAGTTGCGGCTTTTGACCCCCAGATGCAAATTCGGTGGGAGAGAGCTGA
CCTGTGGCCCCACAGTGATCCTTACTGGCAATCTACTGGCCAGGAGGCCAAGCCCTGTC
TAGGTATCTTTGGATAATCCTGATGTTGTGAGAGGAAAATCTGTATTAGATCTTGGGAG
TGGATGTGGAGCTACAGCTATTGCTGCTAAGATGAGTGGGGCATCAAGGATCTTGGCCAA
TGACATAGACCCTATTGCAGGAATGGCTATTACACTAAATGTGAATTGAACAGACTGAA
TCCTTTTCTATTTAATCCAAAACATTTGAATTTGGAACAAGATAAGTGGGACCTTGT
TGTCTTGGCGATATGTTTTATGATGAAGACCTTGACAGATAGTCTTCATCAGTGGCTGAA
GAAGTGCTTCTGGACCTATAGAACTCGAGTACTGATTGGTGACCTGGGCGGCCCAAGT
CAGTGGACACAGCATTACAGCATCACCTGCACAAAGTGGTAGAATATTCACTTTTGGAGTC
TACTAGGCAGGAAAACAGTGGACTGACAACAAGCACAGTGTGGGGTTTTTACGCTTGAGT
TGTCAAAGTGCTTCCAAGTATGAATATAGTAATGTTTGGATCTGACTCTAAAAGTTTTCT
CTATAGGAGATACTCTCCAGTTAATGAATGTAATTCCTGTTAAATGGAAAATCTTGTTT
TTAAAATATGAAGTTTAGAGTTTTGTTACTTTTGTGTCATGTAAGTGGTCTGTATTCT
ATGCATGCCAATTATACACATCTCTATCTGCATTTTTTTTTCTATTTAAACCGCTGAAGG
AATATGATTATACAATGCCATACTCAATGGTGGCAGCATTTAATTTAAGTAATGGAGAAG
AATTAACATTGTAGCTGGATCTGTTTCTGTAGTTGAGGACAACCTGTGATGTAACTTTGA
ATTAACAACAAAACAAAACAGAAGAAGACTATATATATATTTTTTCTTTTTTATAGAGA
CAGTCTCACTTTGCTCCCAGGCTGGAATGCAGTGGCTATTAGAGGCTTAATCATTGGGC
ACTGCAGCCTTGAACCTCTGGGCTTTTTTTTTTTTTGAGATGGAGTCTCAGCTCTGTCGTC
CAGGCTGGAGTGCAGTACTCATGTCTCGGCTCACTGTAGCTCCACCTCCCCAATCAA
GCGATTGCTCTCAGCTCCAGAGTAGCTGGGATTTTAGGTGTGCACCACCATGCCT
GGCTAATTTTTGTATTTTAGTAGAGACGGGTTTTGCCATGTTGCCAGGCCGGTCTCA
AACTCCTGACCTCAGGTGATCCACCCGCTTGGCCTCCCAAAGTCTAGGATTACAGGTG
TGAGCCACCACGCCAGCCTGACGATGTTTTTACTTCTATCACTTCTTTTGATTTTTTC
TTATAGCTTCTATCTGCTTACGTCACCCATCATTCTTGCCTGTTGTATGCTTTTCGCA
TTAGAGCCCTTTCATGTTAATCAGTTATTTAAATTTATGATCTGGTAATCTAAAATG
TCTGCCATAACTGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | >OriGene 5' read for NM_173802 unedited<br>NNNGGTAGTTCTTGATTTGTNATACGACTTACTATAGGCGGCCGCGGATTCANATCTGGT<br>ACCGGTCCGGAATCCCGGGATGCCGCGAGGGGCCCGCGTCCGTCCCGCCCCCTGCCGGG<br>CCGCGCGCTCTGCTAGAGCGTGGCTCAGTTTTGGTAGCGGGACCCGGAAATGTAAGC<br>ATGAGCGGGAACAGTCGCCAGGGCGAGTGACAGGCGAGCCCTATGCTTTACTTCCGAGGG<br>CGGTGTCAGCGAAGCTAGAGTCAGAGGTTCCGGTTGAGATCAAGTTGGGAGACACACCCT<br>TGTTCAATCTCCTTGAGAAGCAGCTATTATCAACAGAACATTGACAGAACCTGTGTTGG<br>GGAAAGGACTGATGGCTTTGAGTCTAGGTTGGAAAGCACACAGGAACCACTGTGGTCTCC<br>TCTTGCAGGCTCTGCGAAGCAGTGGTCTTCTTGTTCCTGTGGCCAGTGTCCCTGGA<br>GAGGAGCTGGAAGCTTTTTGGACCCTGAGATAAAGGCTTTCCTGGAGGAGAACTGAAG<br>TCACCAGCAGTGGTAGCCTCACCCCTGAAATCCAGTTGCGGCTTTTGACCCCAAGATGCA<br>AATTCTGGTGGGAGAGAGCTGACCTGTGGCCCCACAGTGATCCTTACTGGGCAATCTACT<br>GGCCAGGAGGCCAAGCCCTGTCTAGGTATCTTTGGATAATCCTGATGTTGTCAGAGGAA<br>AATCTGTATTAGATCTTGGGAGTGGATGTGGAGCTACAGCTATTGCTGCTAAGATGAGTG<br>GGGCATCAAGGATCTTGGCCAATGACATAGACCCTATTGCAGGAATGGCTATTACTACTAA<br>ATTGTGAATTGAACAGACTGAATCCTTTTCTCTAT |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_173802   |
| <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>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>                      | <a href="#">NM_173802.2</a> , <a href="#">NP_776163.1</a>   |
| <b>RefSeq Size:</b>                 | 2078 bp   |
| <b>RefSeq ORF:</b>                  | 789 bp  |
| <b>Locus ID:</b>                    | 254013  |
| <b>UniProt ID:</b>                  | <a href="#">Q8IXQ9</a>  |
| <b>Cytogenetics:</b>                | 12p11.21  |
| <b>Protein Families:</b>            | Druggable Genome  |

**Gene Summary:**

Protein-lysine methyltransferase that selectively trimethylates the flavoprotein ETFB in mitochondria (PubMed:25023281, PubMed:25416781). Thereby, may negatively regulate the function of ETFB in electron transfer from Acyl-CoA dehydrogenases to the main respiratory chain (PubMed:25416781).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, and 3 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.