

## Product datasheet for **SC118921**

### ETFB (NM\_001985) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ETFB (NM_001985) Human Untagged Clone
Tag:	Tag Free
Symbol:	ETFB
Synonyms:	FP585; MADD
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118921 sequence for NM_001985 edited (data generated by NextGen Sequencing)

```
ATGGCGGAGCTGCGCGTCTCGTAGCTGTCAAGAGGGTCATCGACTACGCCGTGAAGATC
CGAGTGAAGCCTGACAGGACCGGTGTGGTCACGGATGGTGTGAAGCACTCCATGAACCCC
TTCTGTGAGATCGCGGTGGAGGAGGCTGTGCGGCTCAAGGAGAAGAAGCTGGTGAAGGAG
GTCATCGCCGTGAGTGTGGCCGTCACAGTGCCAGGAGACGATTGACCGCCCTGGCC
ATGGGTGCAGACCGAGGTATCCACGTGGAGGTGCCCCAGCAGAAGCAGAACGCTTGGGT
CCCCTGCAGGTGGCTCGGGTCTGGCCAAGCTGGCAGAGAAGGAGAAGGTGGACCTGGTG
CTGCTGGGCAAACAGGCCATCGATGATGACTGTAACCAGACAGGGCAGATGACAGCTGGA
TTTCTTGACTGGCCACAGGGCACATTGCTCCAGGTGACGCTGGAGGGGGACAAGTTG
AAAGTGGAGCGGGAGATCGATGGGGGCTGGAGACCCTGCGCCTGAAGCTGCCAGCTGTG
GTGACAGCTGACCTGAGGCTCAACGAGCCCGCTACGCCAGCTGCCAACATCATGAAA
GCCAAGAAGAAGAAGATCGAGGTGATCAAGCCTGGGGACCTGGGTGTGGACCTGACCTCC
AAGCTCTCTGTGATCAGTGTGGAGGACCCGCCAGCGCACGGCCGGCGTCAAGGTGGAG
ACCACTGAGGACCTGGTGGCCAAGCTGAAGGAGATTGGGCGGATTGA
```

Clone variation with respect to NM\_001985.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001985 unedited  
 TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCGGGGAAGATGGC  
 GGAGCTGCGCGTCTCGTAGCTGTCAAGAGGGTTCATCGACTACGCCGTGAAGATCCGAGT  
 GAAGCCTGACAGGACCGGTGTGGTCACGGATGGTGTGAAGCACTCCATGAACCCCTTCTG  
 TGAGATCGCGGTGGAGGAGGCTGTGCGGCTCAAGGAGAAGAAGCTGGTGAAGGAGTTCAT  
 CGCCGTGAGTGTGGCCCTGCACAGTCCAGGAGACGATTTCGTACCGCCCTGGCCATGGG  
 TGAGACCGAGGTATCCACGTGGAGGTGCCCCCAGCAGAAGCAGAACGCTTGGGTCCCCT  
 GCAGGTGGCTCGGTCTGGCCAAGCTGGCAGAGAAGGAGAAGGTGGACCTGGTGTGCT  
 GGGCAAACAGGCCATCGATGATGACTGTAAACCAGACAGGGCAGATGACAGCTGGATTCT  
 TGACTGGCCACAGGGCACATTTCGCTCCCAGGTGACGCTGGAGGGGGACAAGTTGAAAGT  
 GGAGCGGGAGATCGATGGGGGCTGGAGACCCTGCGCCTGAAGCTGCCAGCTGTGGTGC  
 AGCTGACCTGAGGCTCAACGAGCCCGCTACGCCACGCTGCCAACATCATGAAAGCCAA  
 GAAGAAGAAGATCGAGGTGATCAAGCCTGGGGACCTGNGTGTGGACCTGACCTNCAAGCT  
 CTCTGTGATCAGTGTGGANGACCCGCCACGCGACGGCCGGCGTCAAGGTGGAGACCAC  
 TNGAGACCTGGNTGGCCAGCTGAAGGAGATTGGGCGGGATTGACCCCTCCAGAGATGGC  
 AATAAACTGACTCTCACATCAAAAAAAAAAAAAAAAAAACTCGACTCTAGATGCGGCCGCG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001985 unedited  
 CCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGATGTTGAGAGTCAGTT  
 TTATTGCCATCTCTGGGAGGGGCTCAAATCCGCCCAATCTCCTTCAGCTTGGCCACCAGG  
 TCCTCAGTGGTCTCCACCTTGACGCCGGCCGTGCGCTGGGGCGGGTCTCCACACTGATC  
 ACAGAGAGCTTGGAGTCCAGTCCACACCCAGGTCCCCAGGCTTGATCACCTCGATCTTC  
 TTCTTCTGGCTTTCATGATGTTGGGCAGCGTGGCGTANCGGGGCTCGTTGAGCCTCAGG  
 TCAGCTGTCAACCAGCTGGCAGCTTACGGCGCAGGGTCTCCAGGCCCCATCGATCTCC  
 CGCTCCACTTTCAACTTGTCCCCCTCCAGCGTACCTGGGAGGGCAATGTGCCCTGTGGC  
 CAGTCAAGAAATCCAGCTGTCTGCTGCCCTGTCTGGTTACAGTATCATCGATGGCCTGT  
 TTGCCACGAGCACCAGGTCCACCTTCTCCTTCTGCCAGCTTGGCCAGGACCCGAGCC  
 ACCTGCAGGGGACCCAAGCGTTCTGCTTCTGCTGGGGGACCTCCACGTGGATACCTCGG  
 TCTGCACCCATGGCCAGGGCGGTACGAATCGTCTCCTGGCACTGTGCANGCCACAGCTG  
 ACGGCGATGACCTCCTTACCAGCTTCTTCTCCTTGGAGCCGACAGCCTCCTCCACCGCG  
 ATCTCACAGAAGGGGTTTCATGGAGTGCCTCACACCTTCCGTGACCCACCCGGTCTGTCA  
 GGCTCACTCCGATCTCACGGCGTATCGATGACCTTTTGCAGCTAGAGCACGCCAGTCCGC  
 ATTTCCGCGCTGGGGAATAATTTAGGGGAANTTTATATTGTTATGAAACCCCTCAGGCG  
 CCACAATCTTAGACTGCCCGCATCCCACGCGATTCTACCCCTTCTCTTCG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001985

**Insert Size:**

920 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:**

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\\_001985.2](#), [NP\\_001976.1](#)

**RefSeq Size:** 933 bp

**RefSeq ORF:** 768 bp

**Locus ID:** 2109

**UniProt ID:** [P38117](#)

**Cytogenetics:** 19q13.41

**Domains:** ETF\_beta

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes electron-transfer-flavoprotein, beta polypeptide, which shuttles electrons between primary flavoprotein dehydrogenases involved in mitochondrial fatty acid and amino acid catabolism and the membrane-bound electron transfer flavoprotein ubiquinone oxidoreductase. The gene deficiencies have been implicated in type II glutaricaciduria. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the shorter isoform (1).