

## Product datasheet for **RG210894**

### ETFB (NM\_001985) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ETFB (NM_001985) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ETFB
Synonyms:	FP585; MADD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210894 representing NM_001985 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGAGCTGCGCGTGCTCGTAGCTGTCAAGAGGGTCATCGACTACGCCGTGAAGATCCGAGTGAAGC  
CTGACAGGACCGGTGTGGTCACGGATGGTGTGAAGCACTCCATGAACCCCTTCTGTGAGATCGCGGTGGA  
GGAGGCTGTGCGGCTCAAGGAGAAGAAGCTGGTGAAGGAGGTATCGCCGTCAGCTGTGGCCTGCACAG  
TGCCAGGAGACGATTCGTACCGCCCTGGCCATGGGTGCAGACCGAGGTATCCACGTGGAGGTGCCCCAG  
CAGAAGCAGAACGCTTGGGTCCCTGCAGTGGCTCGGGTCTGGCCAAGCTGGCAGAGAAGGAGAAGGT  
GGACCTGGTGTCTGGGCAAACAGGCCATCGATGATGACTGTAACCAGACAGGGCAGATGACAGCTGGA  
TTTCTTGACTGGCCACAGGGCACATTCCCTCCCAGGTGACGCTGGAGGGGGACAAGTTGAAAGTGGAGC  
GGGAGATCGATGGGGGCCTGGAGACCCTGCGCCTGAAGCTGCCAGCTGTGGTGACAGCTGACCTGAGGCT  
CAACGAGCCCCGCTACGCCACGCTGCCAACATCATGAAAGCCAAGAAGAAGATCGAGGTGATCAAG  
CCTGGGGACCTGGGTGTGGACCTGACCTCCAAGCTCTGTGATCAGTGTGGAGGACCCGCCACGCGCA  
CGGCCGGCGTCAAGGTGGAGACCACTGAGGACCTGGTGGCCAAGCTGAAGGAGATTGGGCGGATT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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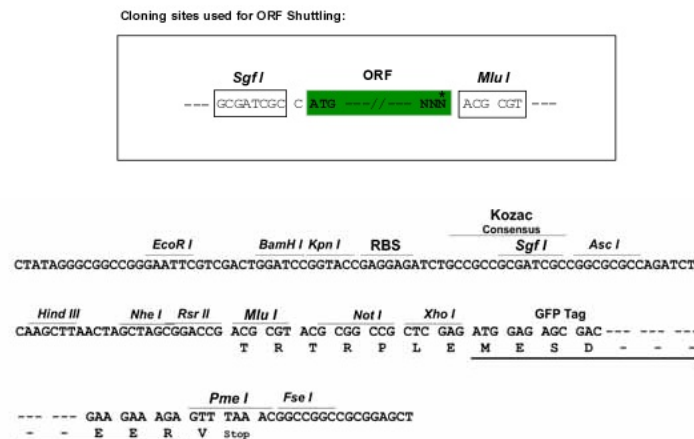
**Protein Sequence:** >RG210894 representing NM\_001985  
 Red=Cloning site Green=Tags(s)

MAELRVLVAVKRVIDYAVKIRVKPDRTGVVTDGVKHSMPFCEIAVEEAVRLKEKKLVKEVIAVSCGPAQ  
 CQETIRTALAMGADRGIHVEVPPAEERLGPLQVARVLAKLAEKEKVDL VLLGKQAIDDDCNQTGQMTAG  
 FLDWPQGTFFASQVTLEGDKLKVEREIDGGLETLRKLPVVTADLRLNEPRYATLPNIMKAKKKKIEVIK  
 PGDLGVDLTSKLSVISVEDPPQRTAGVKVETTEDLVAKLKEIGRI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001985

**ORF Size:** 765 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:**

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\\_001985.3](#)

**RefSeq Size:** 933 bp

**RefSeq ORF:** 768 bp

**Locus ID:** 2109

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

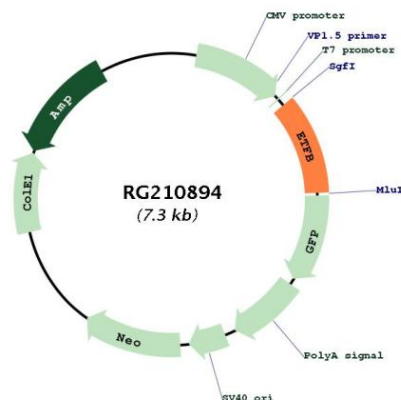
**Cytogenetics:** 19q13.41

**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]

## Product images:



Circular map for RG210894