

Product datasheet for **MG203280**

Etfb (BC049237) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Etfb (BC049237) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Etfb
Synonyms: 0610009I16Rik; 2810441H06Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203280 representing BC049237
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGCTGCGCGCCTCGTGGCTGTCAAGAGGGTCATCGACTTCGCTGTGAAGATTCGGTAAAGC
CGGACAAGTCTGGAGTGGTCACTGATGGTGTGAAGCACTCCATGAACCCCTTCTGTGAGATTGCAGTGGA
AGAGGCTGTGCGGCTAAAGGAGAAGAACTGGTGAAGGAGATCATTGCCGTCAGCTGTGGCCCTCACAG
TGCCAGGAGACCATCCGAACTGCTCTGGCCATGGGTGCAGACAGAGGCATCCACGTGGAGATACCAGGGG
CACAGGCAGAAAGCTTAGGCCCTGCAGGTGGCCGGGTCTGGCCAAGCTGGCTGAAAAGGAGAAAGT
GGACCTTTTGTTCCTGGGCAAGCAGGCTATTGATGATGACTGTAACCAGACAGGTGAGATGACAGCTGGA
CTTCTGGACTGGCCGAGGGTACATTCCCTCTCAGGTGACACTGGAGGGGGACAAGGTAAGTGGAAAC
GGGAAATTGACGGGGTCTGGAGACCCTTCGCCTGAAGCTGCCCGCTGTGGTGACTGCTGACCTAAGGCT
CAATGAGCCTCGCTATGCCACCCTGCCAACATCATGAAAGCCAAGAAGAAGATTGAAGTGGTCAAG
GCTGGAGACCTGGGCGTGGACCTGACCTCCAAGTCTCTGTGATCAGTGTGGAAGAGCCCTCAGCGCT
CAGCAGGAGTCAAGGTGGAGACCACAGAAGACCTGGTGGCCAAGCTGAAGGAGGTGGGCGGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203280 representing BC049237
Red=Cloning site Green=Tags(s)

MAELRALVAVKRVIDFAVKIRVKPKSGVVTDGVKHSMPFCEIAVEEAVRLKEKKLVKEIIAVSCGPSQ
 CQETIRTALAMGADRGIHVEIPGAQAESLGPLQVARVLAKLAEKEKVDLLFLGKQAIDDDCNQTGQMTAG
 LLDWPQGTFFASQVTLEGDKVVEREIDGGLETLRCLKLPAVVTADLRLNEPRYATLPNIMKAKKKKIEVVK
 AGDLGVDLTSKVSVISVEEPPQRSAGVKVETTEDLVAKLKEVGRI

TRTRPLE - GFP Tag - V

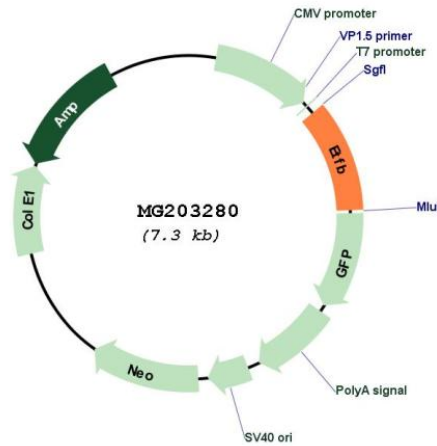
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC049237

ORF Size: 767 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:	BC049237 , AAH49237
RefSeq Size:	835 bp
RefSeq ORF:	767 bp
Locus ID:	110826
Cytogenetics:	7 28.25 cM
Gene Summary:	Heterodimeric electron transfer flavoprotein that accepts electrons from several mitochondrial dehydrogenases, including acyl-CoA dehydrogenases, glutaryl-CoA and sarcosine dehydrogenase. It transfers the electrons to the main mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase (By similarity). Required for normal mitochondrial fatty acid oxidation and normal amino acid metabolism (PubMed:25023281). ETFB binds an AMP molecule that probably has a purely structural role (By similarity).[UniProtKB/Swiss-Prot Function]