

## Product datasheet for **MG204913**

### Etfa (NM\_145615) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Etfa (NM_145615) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Etfa
Synonyms:	2010200I21Rik; D9Ertd394e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204913 representing NM_145615 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTCGAGCAGCGGCCCTGGCAGCTCCGGCGGGCGGCTCATTGCTCCGTTTTCAGAGTACCTTGG  
TAATAGCTGAGCATGCAATGATTCCCTAGCACCCATTACTCTAAATACTATCACTGCAGCTGGACGTCT  
TGGAGGTGAAGTGTCTGCTTAGTAGCTGGAACCAAGTGTGACAAGGTGGTACAGGATCTATGAAAAGTA  
GCTGGCGTAGCAAAGTTCTGGTGGCTCAGCATGATGCATACAAAGGCCCTCTCCAGAGGAACTCACAC  
CGTTGATTTTGGAACTCAGAAGCAGTTCAGTTACACACACATCTGTGCTGGAGCGTCTGCTTTTGGAAA  
GAACCTTCTGCCAGAGTAGCTGCCAACTTAATGTTGCTCCAGTTTCTGACATCATTGAGATCAAGTCA  
CCTGACACATTTGTGAGAACTATCTATGCAGGAAATGCGTTGTGTACAGTAAAGTGTGATGAGAAAGTAA  
AGGTGTTTTCTGTTTCGAGGAACATCTTTTGGAGCTGCAGCAACAAGTGGAGGTAGTGCTAGTTTCAGAAAA  
GGCACCAAGTTCTTCATCAGTGGGAATATCAGAGTGGCTTGACCAGAAATTGACAAAAAGTGACCGACCA  
GAACTAACTGGTCCAAAGTGGTGGTATCTGGTGGTCCGGGTTTGAAGAGTGGAGAGAACTTAACTGC  
TGTATGACCTGGCAGATCACTACATGCTGCAGTTGGTGTCTCCGAGCTGCTGTTGATGCTGGCTTTGT  
TCCCAATGACATGCAAGTTGGTCCAGAGGAAAAATAGTAGCTCCAGAACTTTATATTGCTGTTGGAATA  
TCTGGAGCCATTCAACATTTAACTGGGATGAAGGACAGCAAGACAATCGTGGCTATTAACAAAGATCCAG  
AAGCTCCAATTTCCAGGTGGCAGATTATGGAATAGTTGCAGATTTATTTAAGGTGGTTCCTGAAATGAC  
AGAAATACTGAAGAAAAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204913 representing NM\_145615  
Red=Cloning site Green=Tags(s)

MFRAAAPGQLRRAASLLRFQSTLVIAEHANDSLAPITLNTITAAGRLGGEVSCLVAGTKCDKVVQDLCKV  
 AGVAKVLVAQHDAYKLLPEELTPLILETQKQFSYTHICAGASAFGKNLLPRVAAKLNVPVSDIIEIKS  
 PDTFVRTIYAGNALCTVKCDEKVKVFSVRGTSFEAAATSGGSASSEKAPSSSSVGISEWLDQKLTKSDRP  
 ELTGAKVVVSSGRGLKSGENFKLLYDLADQLHAAV GASRAAVDAGFVPNDMQVGTGKIVAPELYIAVGI  
 SGAIQHLTGMKDSKTIVAINKDPEAIFVQVADYGIVADLFKVVPEMTEILKKK

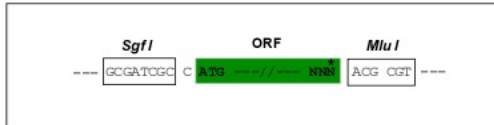
TRTRPLE - GFP Tag - V

**Restriction Sites:**

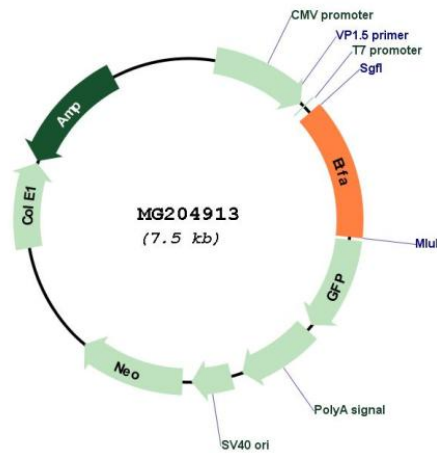
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_145615

**ORF Size:** 999 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_145615.1</a>
<b>RefSeq Size:</b>	1380 bp
<b>RefSeq ORF:</b>	1002 bp
<b>Locus ID:</b>	110842
<b>UniProt ID:</b>	<a href="#">Q99LC5</a>
<b>Cytogenetics:</b>	9 B
<b>Gene Summary:</b>	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 (ETF dehydrogenase). Required for normal mitochondrial fatty acid oxidation and normal amino acid metabolism.[UniProtKB/Swiss-Prot Function]