

Product datasheet for **RG225394**

ETFA (NM_001127716) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ETFA (NM_001127716) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ETFA
Synonyms: EMA; GA2; MADD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG225394 representing NM_001127716
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTCCGAGCGGCGCTCCGGGCGAGCTCCGGCGGGCGGTGGCACAAGATCTCTGTAAAGTAGCAGGCA
TAGCAAAAGTTCTGGTGGCTCAGCATGATGTGTACAAAGGCTACTTCCAGAGGAACTGACACCATTGAT
TTTGGCAACTCAGAAGCAGTTCAATTACACACACATCTGTGCTGGAGCATCTGCCTTCGAAAGAACCTT
TTGCCAGAGTAGCAGCCAACTTGAGGTTGCCCGATTCTGACATCATTGCAATCAAGTCACCTGACA
CATTTGTGAGAACTATTTATGCAGGAAATGCTCTATGTACAGTGAAGTGTGATGAGAAAGTGAAAGTGTT
TTCTGTCCGTGGAACATCCTTTGATGCTGCAGCAACAAGTGGCGGTAGTGCCAGTTCAGAAAAGGCATCA
AGTACTTCACCAAGTGAAATATCAGAGTGGCTTGACCAGAAATTAACAAAAGTGATCGACCAGAGCTAA
CAGGTGCCAAAGTGGTGTATCTGGTGGTCGAGGCTTGAAGAGTGGAGAGAACTTAAAGTTGTTATATGA
CTTGGCAGATCAACTACATGCTGCAGTTGGTGTCTCCCGTGTCTGTTGATGCTGGCTTTGTTCCCAAT
GACATGCAAGTTGGACAGACGGGAAAAATAGTAGCACCAGAACTTATATTGCTGTTGGAATATCTGGAG
CCATCCAACATTTAGCTGGGATGAAAGACAGCAAGACAATTGTGGCAATTAATAAAGACCCAGAAGCTCC
AATTTTCCAAGTGGCAGATTATGGAATAGTTGCAGATTTATTTAAGGTAGTTCCTGAAATGACTGAGATA
TTGAAGAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225394 representing NM_001127716
Red=Cloning site Green=Tags(s)

MFRAAAPGQLRRAVAQDLCKVAGIAKVLVAQHVDVYKGLLPEELTPLILATQKQFNHYTHICAGASAFGKNL
 LPRVAAKLEVAPISDIIAIKSPDTFVRTIYAGNALCTVKCDEKVKVFSVRGTSFDAAATSGGSASSEKAS
 STSPVEISEWLDQKLTKSDRPELTGAKVVVSGGRGLKSGENFKLLYDLADQLHAAV GASRAAVDAGFVFN
 DMQVGGTQKIVAPELYIAVGISGAIQHLAGMKDSKTIVAINKDPEAPIFQVADYGVADLKFVVPPEMTEI
 LKKK

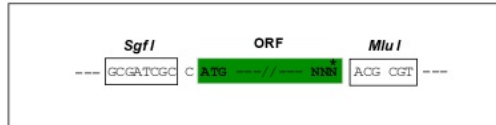
TRTRPLE - GFP Tag - V

Restriction Sites:

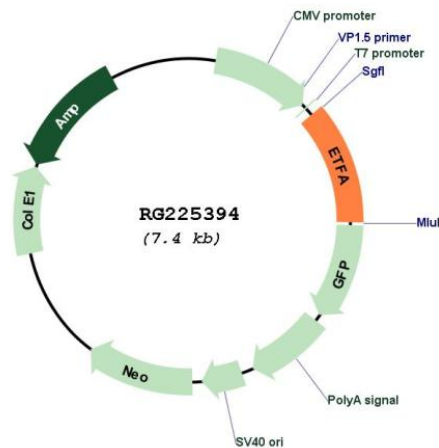
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001127716

ORF Size: 852 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:	NM_001127716.1 , NP_001121188.1
RefSeq Size:	1222 bp
RefSeq ORF:	855 bp
Locus ID:	2108
UniProt ID:	P13804
Cytogenetics:	15q24.2-q24.3
Protein Families:	Druggable Genome
Gene Summary:	ETFA participates in catalyzing the initial step of the mitochondrial fatty acid beta-oxidation. It shuttles electrons between primary flavoprotein dehydrogenases and the membrane-bound electron transfer flavoprotein ubiquinone oxidoreductase. Defects in electron-transfer-flavoprotein have been implicated in type II glutaricaciduria in which multiple acyl-CoA dehydrogenase deficiencies result in large excretion of glutaric, lactic, ethylmalonic, butyric, isobutyric, 2-methyl-butyric, and isovaleric acids. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]