

### Product datasheet for RC225394L3

#### ETFA (NM 001127716) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** 

**Product Name:** 

Tag:

Symbol:

Synonyms:

Selection: Vector:

**Mammalian Cell** 

# **Expression Plasmids** ETFA (NM\_001127716) Human Tagged Lenti ORF Clone Myc-DDK **ETFA** EMA; GA2; MADD Puromycin

Sgfl-Mlul

pLenti-C-Myc-DDK-P2A-Puro (PS100092) E. coli Selection: Chloramphenicol (34 ug/mL)

The ORF insert of this clone is exactly the same as(RC225394). **ORF** Nucleotide

Sequence:

**Restriction Sites: Cloning Scheme:** 

> Cloning sites used for ORF Shuttling: ORF Sqf I Mlu I --- GCG ATC GC C ATG --- //--- NNN ACG CGT ---

Kozak EcoR I BamH I RBS Sgfl ORF CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGC C Mvc.Tag Mlu I Notl Xhol NNN ACG CGT ACG CGG CCG CTC GAG CAG AAA CTC ATC TCA GAA GAG T R T R P L E O K L I S E E DDK.Tag GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TGGGTAGGAAG D L A A N D I L D Y K D D D K V

\* The last codon before the Stop codon of the ORF.

ACCN: NM\_001127716 **ORF Size:** 852 bp

## https://www.origene.com

techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

Rockville, MD 20850, US Phone: +1-888-267-4436



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<b>GENE</b> ETFA (NM_001127716) Human Tagged Lenti ORF Clone – RC225394L3	
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. <u>More info</u>
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	NM 001127716.1, NP 001121188.1
RefSeq ORF:	855 bp
Locus ID:	2108
UniProt ID:	<u>P13804</u>
Cytogenetics:	15q24.2-q24.3
Protein Families:	Druggable Genome
MW:	29.8 kDa
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]

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