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Product datasheet for SC120096

ETFA (NM_000126) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ETFA (NM_000126) Human Untagged Clone
Tag:	Tag Free
Symbol:	ETFA
Synonyms:	EMA; GA2; MADD
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC120096 sequence for NM_000126 edited (data generated by NextGen Sequencing)

ATGTTCCGAGCGGCGGCTCCGGGGCAGCTCCGGCGGGCGGCCTCATTGCTACGATTTCAG
AGTACCCTGGTAATAGCTGAGCATGCAAATGATTCCCTAGCACCCATTACTTTAAATACC
ATTACTGCAGCCACACGCCTTGGAGGTGAAGTGTCCTGCTTAGTAGCTGGAACCAAATGT
GACAAGGTGGCACAAGATCTCTGTAAAGTAGCAGGCATAGCAAAAGTTCTGGTGGCTCAG
CATGATGTGTACAAAGGCCTACTTCCAGAGGAACTGACACCATTGATTTTGGCAACTCAG
AAGCAGTTCAATTACACACACATCTGTGCTGGAGCATCTGCCTTCGGAAAGAACCTTTTG
CCCAGAGTAGCAGCCAAACTTGAGGTTGCCCCGATTTCTGACATCATTGCAATCAAGTCA
CCTGACACATTTGTGAGAACTATTTATGCAGGAAATGCTCTATGTACAGTGAAGTGTGAT
GAGAAAGTGAAAGTGTTTTCTGTCCGTGGAACATCCTTTGATGCTGCAGCAACAAGTGGC
GGTAGTGCCAGTTCAGAAAAGGCATCAAGTACTTCACCAGTGGAAATATCAGAGTGGCTT
GACCAGAAATTAACAAAAAGTGATCGACCAGAGCTAACAGGTGCCAAAGTGGTGGTATCT
GGTGGTCGAGGCTTGAAGAGTGGAGAGAACTTTAAGTTGTTATATGACTTGGCAGATCAA
CTACATGCTGCAGTTGGTGCTTCCCGTGCTGCTGTTGATGCTGGCTTTGTTCCCAATGAC
ATGCAAGTTGGACAGACGGGAAAAATAGTAGCACCAGAACTTTATATTGCTGTTGGAATA
TCTGGAGCCATCCAACATTTAGCTGGGATGAAAGACAGCAAGACAATTGTGGCAATTAAT
AAAGACCCAGAAGCTCCAATTTTCCAAGTGGCAGATTATGGAATAGTTGCAGATTTATTT
AAGGTAGTTCCTGAAATGACTGAGATATTGAAGAAAAAATGA

Clone variation with respect to NM_000126.3

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000126 unedited
TAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCTGAGGCGGCGCCAGTTG
GCCGGGCACGGGGCTGCTGTAAGGCCGAGGTTGCGGCGGAAGCGGAGACCATGTTCCGAG
CGGCGGCTCCGGGGCAGCTCCGGCGGGCGGCCTCATTGCTACGATTTCAGAGTACCCTGG
TAATAGCTGAGCATGCAAATGATTCCCTAGCACCCATTACTTTAAATACCATTACTGCAG
CCACACGCCTTGGAGGTGAAGTGTCCTGCTTAGTAGCTGGAACCAAATGTGACAAGGTGG
CACAAGATCTCTGTAAAGTAGCAGGCATAGCAAAAGTTCTGGTGGCTCAGCATGATGTGT
ACAAAGGCCTACTTCCAGAGGAACTGACACCATTGATTTTGGCAACTCAGAAGCAGTTCA
ATTACACACACATCTGTGCTGGAGCATCTGCCTTCGGAAAGAACCTTTTGCCCAGAGTAG
CAGCCAAACTTGAGGTTGCCCCGATTTCTGACATCATTGCAATCAAGTCACCTGACACAT
TTGTGAGAACTATTTATGCAGGAAATGCTCTATGTACAGTGAAGTGTGATGAGAAAGTGA
AAGTGTTTTCTGTCCGTGGAACATCCTTTGATGCTGCAGCAACAAGTGGCGGTAGTGCCA
GTTCAGAAAAGGCATCAAGTACTTCACCAGTGGAAATATCAGAGTGGCTTGACCAGAAAT
TAACANAAAGTGATCGACCAGAGCTAACAGGTGCCAAAGTGGTGGTATCTGGTGGTCGAG
GCTTGAAGAGTGGAGAGAACTTTAAAAGTGTATATGACTTGGCAGATCACTACATGCTGC
AGTTGGTGCTTCCCGTGCTGCTGTTGATGCTGGCTTTGNTCCCAATGACATGCAGTTGNA
CAGACGGAAAAATAGTAGCACCAGACTTTATATTGCTGTTGGATATCTGGAGCATNCACT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000126 unedited
AATTGAGAGTCGAGTTTTATTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAA
AGCGGGGGAAAAGCCTTATTATAGATTTTAGTACAAAATTAAAAAAGTTCAAACAATAAT
TGTTTGGAACCCCAAATAATTAAAAGGAAACACAGCAATCCCATAAACAAGCATTCTGGC
ATTTGTTAAAAATTTTCCCTCAATTTTTGAAATGGAGCTCTCCATGCTTTCCAAGGATGG
GTATAATTTTTTTAAATATCGGGGATTTCAGGGGAATACTTTAACAAAAGTTTTTTTTTT
AAGGCATGACCCTGATTCATTTTTTTTTAAATATCTCAGTCATTTCAGGAACTACCTTAA
ATAAATCTGCAACTATTCCATAATCTGCCACTTGGAAAATTGGAGCTTCTGGGTCTTTAT
TAATTGCCACAATGGGCTTGCTGTCTTTCATCCCAGCTAAATGTTGGATGGCTCCAAATA
TTCCAACAGCAATATAAAGTTCTGGTGCTACTATTTTTCCCGTCTGCCCAACTGGCATGT
CATTGGGAACAAAGCCAGCATCAACAGCAGCACGGGAAGCACCAACTGCAGCATGTATTT
GATCTGCCAAGTCATATAACAACTTAAAGTTCTCTCCACTTTTCAAGCCTCGACCACAAA
AACCAACCCTTTTGCCACCTGTTACCTCTGGCCGACACTTTTTGTTAATCTCCGGCCAGC
CCCTCTTGATTTTTCCACTGGGAAAGACCTGGATGCCTTTTCTGAACTGCGCCCTACCGC
CCTTTGGTGTTGCACCACCAAAGGGTTGTCCCCGAACCAAAAAACCTCTCCCTTTTTAAT
ACACTTTACTGTACATAAAACAATCCCTGCATATATTTTCCCAAAAATGTTACGGGCCTT
GATTGAATTAATCCACAAACAGGGCCACCTTAAGTTTGGTTCCATCCTGGGCAAAGGGTC
TTTTCTCAAGCACAAGTTCCCACACAGATATGGTGGTAATAGAACTGTCTCTGAGATGCA
ACAAACAGGGTAATTTCTCT

Restriction Sites: NotI-NotI

ACCN: NM_000126

Insert Size: 1460 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_000126.1, NP_000117.1
RefSeq Size:	1266 bp
RefSeq ORF:	1002 bp
Locus ID:	2108
UniProt ID:	P13804
Cytogenetics:	15q24.2-q24.3
Domains:	ETF_alpha
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] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).