OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC323144

ACSF3 (NM_001127214) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSF3 (NM_001127214) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACSF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>SC323144 representing NM_001127214.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCCCCATGTGGTGCTCACCTTCCGGCGCCTGGGCTGCGCCTTGGCGTCCTGCCGGCTGGCGCCT
GCGAGACACAGAGGAAGTGGTCTTCTGCACACAGCCCCAGTGGCCCGCTCGGACAGGAGCGCCCCGGTG
TTCACCCGTGCCCTGGCCTTTGGGGACAGAATCGCCCTGGTTGACCAGCACGGCCGCCACACGTACAGG
GAGCTTTATTCCCGCAGCCTTCGCCTGTCCCAGGAGATCTGCAGGCTCTGCGGGTGTGTCGGCGGGGAC
CTCCGGGAGGAGAGGGTCTCCTTCCTATGCGCTAACGATGCCTCCTACGTCGTGGCCCAGTGGGCGTCA
TGGATGAGTGGCGGTGTGGCAGTCCCCCTCTACAGGAAGCATCCCGCGGCCCAGCTGGAGTATGTCATC
TGCGACTCCCAGAGCTCTGTGGTCCTTGCCAGCCAGGAGTACCTGGAGCTCCTGAGCCCGGTGGTCAGG
AAGCTGGGGGTCCCGCTGCTGCCGCTCACACCAGCCATCTACACTGGAGCAGTAGAGGAACCGGCAGAG
GTCCCGGTCCCAGAGCAGGGATGGAGGAACAAGGGCGCCATGATCATCTACACCAGTGGGACCACGGGG
AGGCCCAAGGGCGTGCTGAGCACGCACCAAAACATCAGGGCTGTGGTGACCGGGCTGGTCCACAAGTGG
GCATGGACCAAAGACGACGTGATCCTCCACGTGCTCCCGCTGCACCACGTCCATGGTGTGGTCAACGCG
CTGCTCTGTCCTCTCTGGGTGGGAGCCACCTGTGTGATGATGCCTGAGTTCAGCCCTCAGCAGGTTTGG
GAAAAGTTCTTAAGTTCTGAAACGCCGCGGATCAATGTCTTTATGGCAGTGCCTACAATATACACCAAG
CTGATGGAGTACTACGACAGGCATTTTACCCAGCCGCACGCCCAGGATTTCTTGCGTGCAGTTTGTGAA
GAAAAAATTAGGCTGATGGTCTCAGGCTCAGCTGCCCTGCCCCTCCCAGTGCTGGAGAAGTGGAAGAAC
ATCACGGGCCACACCCTGCTGGAGCGGTATGGCATGACCGAGATCGGCATGGCTCTGTCCGGGCCCCTG
ACCACTGCCGTGCGCCTGCCAGGTTCCGTGGGGACCCCACTGCCTGGAGTACAGGTGCGCATTGTCTCA
GAAAACCCACAGAGGGAAGCCTGCTCCTACACCATCCACGCAGAGGGAGACGAGAGGGGGACCAAGGTG
ACCCCAGGGTTTGAAGAAAAGGAGGGGGAGCTGCTGGTGAGGGGACCCTCCGTGTTTCGAGAATACTGG
AATAAACCAGAAGAAACTAAGAGTGCATTCACCCTGGATGGCTGGTTTAAGACAGGGGACACCGTGGTG
TTTAAGGATGGCCAGTACTGGATCCGAGGCCGGACCTCAGTGGACATCATCAAGACTGGAGGCTACAAG
GTCAGCGCCCTGGAGGTGGAGTGGCACCTGCTGGCCCACCCCAGCATCACAGATGTGGCTGTGATTGGA
GTTCCGGATATGACATGGGGCCAGCGGGTCACTGCTGTGGTGACCCTCCGAGAAGGACACTCACTGTCC
CACAGGGAGCTCAAAGAGTGGGCCAGAAATGTCCTGGCCCCGTACGCGGTGCCCTCGGAGCTGGTGCTG
GTGGAGGAGATCCCGCGGAACCAGATGGGCAAGATTGACAAGAAGGCGCTCATCAGGCACTTCCACCCC
TCATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_001127214

Insert Size: 1731 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001127214.3
RefSeq Size:	3578 bp
RefSeq ORF:	1731 bp
Locus ID:	197322
UniProt ID:	Q4G176
Cytogenetics:	16q24.3
MW:	64.1 kDa
Gene Summary:	This gene encodes a member of the acyl-CoA synthetase family of enzymes that activate fatty acids by catalyzing the formation of a thioester linkage between fatty acids and coenzyme A. The encoded protein is localized to mitochondria, has high specificity for malonate and methylmalonate and possesses malonyl-CoA synthetase activity. Mutations in this gene are a cause of combined malonic and methylmalonic aciduria. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Sep 2013] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 4 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.