

## Product datasheet for **SC306297**

### ACOT11 (NM\_147161) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACOT11 (NM_147161) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACOT11
Synonyms:	BFIT; STARD14; THEA; THEM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC306297 representing NM\_147161.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGATCCAGAATGTCGGAAATCACCTGCGACGGGGCTTGGCCTCTGTGTTCTCCAACCGCACATCCCGG
AAGTCAGCCTTACGTGCGGGGAACGACAGTGCCATGGCAGACGGCGAGGGATACCGGAACCCACGGAG
GTGCAGATGAGCCAGCTGGTGCTGCCCTGCCACACCAACCAACGTGGTGAGCTGAGCGTCGGGCAGCTG
CTCAAGTGGATTGACACCACGGCTTGCCTGTCCGCGGAGAGGCACGCTGGCTGCCCTGTGTACAGCT
TCCATGGATGACATCTATTTTGGAGCACACCATTAGTGTGGACAAGTGGTGAATATCAAGGCCAAGGTG
AACCGGGCCTTCAACTCCAGCATGGAGGTGGGCATCCAGGTGGCCTCGGAGGACCTGTGCTCTGAGAAG
CAGTGGAAATGTGTGAAGCCTTGGCCACCTTCGTGGCCCGGAGAGATACCAAGGTGAAGCTGAAG
CAGATCACGCCGCGACAGAAGAGGAGAAGATGGAGCACAGTGTGGCGGCTGAGCGCCGGCGCATGCCG
CTTGTCTATGCAGACACCATCAAGGACCTCTGGCCAACGCGCCATTACAGGGCGATCTGGAGAGCAGA
GACTGTAGCCGCATGGTCCGGCTGAGAAGACCCGTGTGGAGAGTGTGGAGCTGGTCTGCCTCCCAC
GCCAATACCAGGGCAACACCTTTGGGGCCAGATCATGGCCTGGATGGAGAATGTGGCCACCATTGCA
GCCAGCCGGCTCTGCCGTGCCACCCCTACGCTGAAGGCCATTGAAATGTTCCACTCCGAGGCCCGTCC
CAGGTCCGGCAGCCGTCTGGTGCTCAAAGCCATCGTGAACAATGCCTTCAAACATAGCATGGAGGTGGG
GTGTGCGTGGAGGCCATCGCCAGGAGGCTGAGACCCACCGCGCCACATCAACAGTGCCTTTATGACC
TTTGTGGTCTGGACGCAGATGACCAGCCCCAGTTGCTGCCCTGGATTCCGCCCCAGCCCGGCGATGGT
GAGCGCGGTACCGAGAGGCCAGTGCCAGAAAGAAGATCCGCCTGGACAGGAAGTACATCGTGTCTGT
AAGCAGACAGAGGTGCCCTCTCCGTCCCCTGGGACCCTAGCAACCAGGTGTACCTGAGCTACAATAAC
GTCTCCTCCTTGAAGATGCTTGTGGCCAAGGACAACTGGGTGCTGTCTCGGAGATCAGTCAGTCCGC
CTGTACACTCTGGAGGATGACAAGTTCTCCTTCCACATGGAGATGGTGGTGCATGTGGATGCAGCC
CAGGCCTTCTGTGCTCTCGGACCTGCGTCAGAGGCCAGAGTGGGACAAGCACTACCGAGCGTGGAG
CTAGTGCAGCAGGTAGACGAGGACGACGCCATCTACCACGTACCAGCCCTGCCCTCGGAGGTACACACA
AAGCCCCAGGACTTCGTGATCCTGGCCTCGAGGCGGAAGCCTTGTGACAATGGGGACCCCTATGTATC
GCGCTGAGGTCCGTACGCTGCCACACACCGAGAGACGCCAGAGTACAGACGCGGAGAGACCCTCTGC
TCAGGCTTCTGCCTCTGGCGGAGGGGGACCAGCTGACCAAGGTATCCTACTACAACCAGGCCACCCCA
GGTGTCTCAACTATGTGACCACCAACGTGGCCGGCCTCTCCTCTGAGTTCTACACCACCTCAAGGT
TGTGAGCAGTTTCTCTTGACAACCGGAATGATCTGGCCCCAGCCTCCAGACCCTTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI  
**Plasmid Map:** □  
**ACCN:** NM\_147161  
**Insert Size:** 1785 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 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\\_147161.3](#)

**RefSeq Size:** 3181 bp

**RefSeq ORF:** 1785 bp

**Locus ID:** 26027

**UniProt ID:** [Q8WXI4](#)

**Cytogenetics:** 1p32.3

**MW:** 67.2 kDa

**Gene Summary:**

This gene encodes a member of the acyl-CoA thioesterase family which catalyse the conversion of activated fatty acids to the corresponding non-esterified fatty acid and coenzyme A. Expression of a mouse homolog in brown adipose tissue is induced by low temperatures and repressed by warm temperatures. Higher levels of expression of the mouse homolog has been found in obesity-resistant mice compared with obesity-prone mice, suggesting a role of acyl-CoA thioesterase 11 in obesity. Alternative splicing results in transcript variants. [provided by RefSeq, Nov 2010]

Transcript Variant: This variant (2) uses alternate exons in the 3' coding region and UTR, compared to variant 1. The encoded isoform (BFIT2) has a distinct C-terminus compared to isoform BFIT1. 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.