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Product datasheet for SC302855

ACOT1 (NM_001037161) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACOT1 (NM_001037161) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACOT1
Synonyms:	ACH2; CTE-1; LACH2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_001037161 edited
GAGAGGAAGAGTTGGGCAGAGTTGCAGGGGTCTCCACAGCTGAGGCAGTTTGGCCGGATT
ATTTGGGTTCCTGCTCGGATGGCGGCGACGCTGATCCTGGAGCCCGCGGGCCGCTGCTGC
TGGGACGAACCGGTGCGAATCGCCGTGCGCGGCCTAGCCCCGGAGCAGCCGGTCACGCTG
CGCGCGTCCCTGCGCGACGAGAAGGGCGCGCTTTTCCAGGCCCACGCGCGCTACCGCGCC
GACACCCTTGGCGAGCTGGACCTGGAGCGCGCGCCCGCGCTGGGCGGCAGCTTCGCGGGG
CTTGAGCCCATGGGGCTGCTCTGGGCCTTGGAGCCCGAGAAACCCTTGGTGCGGCTGGTG
AAGCGCGACGTGCGAACGCCCTTGGCCGTGGAGCTGGAGGTGCTGGATGGCCACGACCCC
GACCCCGGGCGGCTGCTGTGCCGGGTGCGGCACGAGCGCTACTTCCTCCCGCCCGGGGTG
CGGCGCGAGCCGGTGCGCGCGGGCCGGGTGCGAGGCACGCTCTTCCTGCCGCCAGAACCT
GGGCCCTTTCCTGGCATTGTGGACATGTTCGGAACTGGAGGTGGCCTGCTGGAGTATCGG
GCTAGTCTGCTGGCTGGGAAGGGTTTTGCTGTGATGGCTCTGGCTTACTATAACTATGAA
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GTCCTGAACAGCCCTTTGGAAGGACCTGACCAGAAGAGCTTCATTCCTGTGGAAAGGGCA
GAGAGCACCTTCCTGTTCCTGGTAGGTCAGGATGACCACAACTGGAAGAGTGAGTTCTAT
GCTAATGAGGCCTGTAAACGCTTGCAGGCCCATGGGAGGAGAAAGCCCCAGATCATCTGT
TACCCAGAGACAGGGCACTATATTGAGCCTCCTTACTTCCCCCTGTGTCGGGCTTCCCTG
CATGCCTTGGTGGGCAGTCCTATTATCTGGGGAGGGGAGCCCAGGGCTCATGCCATGGCT
CAGGTGGATGCTTGGAAACAACTCCAGACTTTCTTCCACAAACACTTGGGTGGCCACGAG
GGGACAATCCCATCAAAAGTGTAAATTTTATTTGATCATGTGGCCTCTCTGTTGCTAAT
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001037161 unedited
GTCAAAATTTGTATACGACTCACTATAGGCGGCCGCGNATTCANATCTGGTACCGAGCTC
GGATCCACTAGTAACGGCCGCCATGTGCTGGAATTCGCCCTTGAGAGGAAGAGTTGGGCA
GAGTTGCAGGGGTCTCCACAGCTGAGGCAGTTTGGCCGGATTATTTGGGTTCCTGCTCGG
ATGGCGGCGACGCTGATCCTGGAGCCCGCGGGCCGCTGCTGCTGGGACGAACCGGTGCGA
ATCGCCGTGCGCGGCCTAGCCCCGGAGCAGCCGGTCACGCTGCGCGCGTCCCTGCGCGAC
GAGAAGGGCGCGCTTTTCCAGGCCCACGCGCGCTACCGCGCCGACACCCTTGGCGAGCTG
GACCTGGAGCGCGCGCCCGCGCTGGGCGGCAGCTTCGCGGGGCTTGAGCCCATGGGGCTG
CTCTGGGCCTTGGAGCCCGAGAAACCCTTGGTGCGGCTGGTGAAGCGCGACGTGCGAACG
CCCTTGGCCGTGGAGCTGGAGGTGCTGGATGGCCACGACCCCGACCCCGGGCGGCTGCTG
TGCCGGGTGCGGCACGAGCGCTACTTCCTCCCGCCCGGGGTGCGGCGCGAGCCGGTGCGC
GCGGGCCGGGTGCGAGGCACGCTCTTCCTGCCGCCAGAACCTGGGCCCTTTCCTGGCATT
GTGGACATGTTCGGAACTGGNAGTGGCCTGCTGGAGTATCGGGCTAGTCTGCTGGCTGGG
AAAGGGTTTGCTGTGATGGCCTCTGCTTACTATAACTATTAAGACCTCCCCAAGACATGG
AGACGCTCCATCTGGAGTACTTTGGAGAAACCTGGGAACACCTGCTCAGTCATCCCTGAG
GAAAAAGTCCCAGGATTGGGCTTGTTTGGGAATTCCAAAGGGGGTGGAGCTTTGCCTTTT
CATGGCCTTCTTTCTGAAAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001037161 unedited
NCCCACGGAGATAGCGCACTTCCCAGGNCCAGGTACAGNCACTCGGGGCAGGGGTTCACA
GGGAATGCCACCCGGGATCTGTTCAAGAAACAGCTATGACCGCGGCCGCAATCTAAAGTC
GAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTATTAGCAACAGAGAGGCC
ACATGATCAAATAAAATTTACACTTTTGATGGGATTGTCCCCTCGTGGCCACCCAAGTGT
TTGTGGAAGAAAGTCTGGAGTTGTTTCCAAGCATCCACCTGAGCCATGGCATGAGCCCTG
GGCTCCCCTCCCCAGATAATAGGACTGCCCACCAAGGCATGCAGGGAAGCCCGACACAGG
GGGAAGTAAGGAGGCTCAATATAGTGCCCTGTCTCTGGGTAACAGATGATCTGGGGCTTT
CTCCTCCCATGGGCCTGCAAGCGTTTACAGGCCTCATTAGCATAGAACTCACTCTTCCAG
TTGTGGTCATCCTGACCTACCAGGAACAGGAAGGTGCTCTCTGCCCTTTCCACAGGAATG
AAGCTCTTCTGGTCACGTCCTTCCAAAGGGCTGTTCAGGACATCCACAATGTCTGCATAG
CCATCTTTGGTCACCTTGATGCGATTTCTGTTGACGCCCACATGGGGCACGGGTCTCGCC
CTTGTAGCGTAACGATCCCCCACATTGGCCACAGAGCCGTTGATGACGACCGCAGCCCTG
ATGCCCTTCATGAAAGAGCCCTTGGAAAGCCAAATCTCACCCCCTTTGGAAATTCCAAGC
TCCCAAGTCTGGGACCTTTACCTTAAGATGACTGACCAGTAGTTCCAAGTTCTTTCAATT
ACTCCCAATGGACCGTCCTCCTGGTTCTGGGGGAGGTCTTCACAATTATAGAAACCCAAA
ACCATCACAACAAAACC

Restriction Sites: Please inquire

ACCN: NM_001037161

Insert Size: 1400 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: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_001037161.1, NP_001032238.1
RefSeq Size:	1603 bp
RefSeq ORF:	1266 bp
Locus ID:	641371
UniProt ID:	Q86TX2
Cytogenetics:	14q24.3
Protein Pathways:	Biosynthesis of unsaturated fatty acids
Gene Summary:	Acyl-CoA thioesterases are a group of enzymes that catalyze the hydrolysis of acyl-CoAs into free fatty acids and coenzyme A (CoASH), regulating intracellular levels of acyl-CoAs, free fatty acids and CoASH. More active towards saturated and unsaturated long chain fatty acyl-CoAs (C12-C20).[UniProtKB/Swiss-Prot Function]