

Product datasheet for **RC202837**

acyl CoA Thioesterase 2 (ACOT2) (NM_006821) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	acyl CoA Thioesterase 2 (ACOT2) (NM_006821) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	acyl CoA Thioesterase 2
Synonyms:	CTE-IA; CTE1A; MTE1; PTE2; PTE2A; ZAP128
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC202837 representing NM_006821
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCTAACAAAGCTTCTTCTCCCCACCCCATTCAGTTGTTCTCAGGTCTGAATCAAATGCGCTCAT
 CTCTGCTGTCTTCGAGCGTCCCGGTGTACCAATGGAGCCTGAAGAGTTCGGCGCAGTTCCTGGGGTC
 TCCACAGCTGAGGCAGGTTGGTCAGATCATTAGGGTTCCTGCTCGGATGGCGGCGACGCTGATCCTGGAG
 CCTGCGGGCCGCTGCTGCTGGGACGAACCGGTGCGAATCGCCGTGCGCGGCCCTAGCCCCGGAGCAGCCGG
 TCACGCTGCGCGCTCCCTGCGGACGAGAAGGGCGCGCTTTTCCAGGCCACGCGCGCTACCGCGCGCA
 CACTCTTGGCGAGCTGGACCTGGAGCGCGCCCGCGCTGGGCGGCGACTTCGCGGGGCTTGAGCCCATG
 GGGCTGCTCTGGGCTTGGAGCCCGAGAAACCTTTGGTGGGCTGGTGAAGCGCGACGTGCGAACGCCCT
 TGGCCGTGGAGCTGGAGGTGCTGGATGGCCACGACCCCGACCCCGGGCGGCTGCTGTGCCAGACGGCGCA
 CGAGCGCTACTTCTCCCGCCCGGGGTGCGGCGGAGCCGGTGGCGTGGCCGGGTGCGAGGCACGCTC
 TTCTGCGCCGAGAACCTGGGCCCTTCTCTGGGATTGTGGACATGTTCCGAACTGGAGGTGGCCTGCTGG
 AGTATCGGGCTAGTCTGCTGGCTGGGAAGGTTTTGCTGTGATGGCTCTGGCTTATTATAACTATGAAGA
 CCTCCCCAAGACCATGGAGACGCTCCATCTGGAGTACTTTGAAGAAGCCATGAACACTTGTCTCAGTCAT
 CCCGAGGTAAGGTCAGGAGTTGGGCTGCTTGGAAATTTCAAAGGGGGTGAGCTCTGCCTTCCATGG
 CCTCTTCTGAAGGGCATCACGGCTGCTGTGTCATCAACGGCTCTGTGGCCAAATGTTGGGGGAACCTT
 AACTACAAGGGCGAGACCCTGCCCCCTGTGGGCGTCAACAGAAATCGCATCAAGGTGACCAAAGATGGC
 TATGCAGACATTTGGATGCTTGAACGCCCTTTGGAAGGACCTGACCAGAAGAGCTTCAATCTGTGG
 AAAGGGCAGAGACACCTTCTGTTCTGGTAGGATGACCACAAGTGAAGAGTGAAGTCTATGC
 TAATGAGCCTGTAAACGCTTGCAGGCCATGGGAGGAGAAAGCCCAAGATCATCTGTTACCCAGAGACA
 GGGCACTATATTGAGCCTCCTTACTTCCCCTGTGTCGGGCTTCCCTGCATGCCTTGGTGGGCACTCCTA
 TTATCTGGGGAGGGGAGCCAGGGCTCATGCCATGGCTCAGGTGGATGCTTGGAAACAACCCAGACTTT
 CTTCCACAACACTTGGGTGGCCACGAGGGGACAATCCCATCAAAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202837 representing NM_006821
 Red=Cloning site Green=Tags(s)

MSNKLLSPHPSVVLRFSEFKMASSPAVLRASRLYQWSLKSSAQFLGSPQLRQVGQIIRVPARMAATLILE
 PAGRCCWDEPVRIVRGLAPEQPVTLRASLRDEKGFQAHARYRADTLGELDLERAPALGGSFAGLEPM
 GLLWALEPEKPLVRLVKRDVRTPLAVELEVL DGHDPDPGRLLCQTRHERYFLPPGVRREPVRVGRVGRGL
 FLPPPEPGFPGIVDMFGTGGGLLEYRASLLAGKGFVMAALAYNYEDLPKTMETHLEYFEEAMNYLLSH
 PEVKPGVGLLGISKGGELCLSMASFLKGITAAVVINGSVANVGGTLHYKGETLPPVGVNRNRIVKTKDG
 YADIVDVLNSPLEGPDQKSFIPVERAESTFLFLVGQDDHNWKSEFYANEACKRLQAHGRRKPKIICYPET
 GHYIEPPYFPLCRASLHALVGSPIIWGGEPRAHAMAQVDAWKQLQTFHKLGGHEGTIPSKV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_006821

ORF Size: 1449 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 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](#)

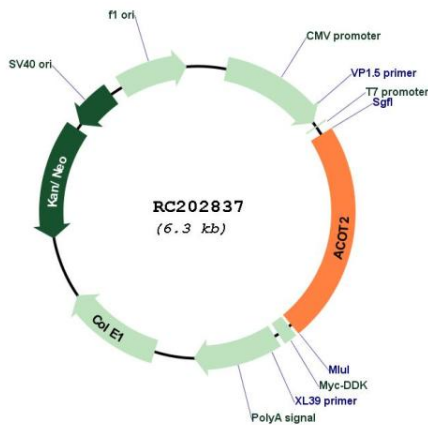
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:**
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_006821.5, NP_006812.3](#)
 RefSeq Size: 1794 bp
 RefSeq ORF: 1452 bp
 Locus ID: 10965
 UniProt ID: [P49753](#)
 Cytogenetics: 14q24.3
 Protein Pathways: Biosynthesis of unsaturated fatty acids
 MW: 53.7 kDa
 Gene Summary: This gene encodes a member of the acyl-CoA thioesterase protein family, and is one of four acyl-CoA hydrolase genes located in a cluster on chromosome 14. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RC202837