

## Product datasheet for **MC207854**

### Acot8 (NM\_133240) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Acot8 (NM_133240) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acot8
Synonyms:	PTE-2; Pte1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC207854 representing NM_133240 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCAGCGCCAGAGGGTCTGGGAGATGCTCATGGCGACGCCGACCGCGGACCTTTCCGGGGACCTCC  
GTAGTGTGCTGGTCACGAGCGTGTCAACCTCGAGCCGCTAGATGAAGATCTCTACAGAGGAAGGCATTA  
CTGGGTACCTACCTCCCAGCGGCTCTTTGGGGTCAAATTATGGGCCAGGCCCTGGTGGCTGCAGCCAAG  
TCTGTGAGTGAAGACGTCCATGTCCACTCCCTGCACTGCTACTTTGTCCGGGCAGGGGACCCGAAAGTGC  
CAGTGTGTACACGTAGAGAGGATACGGACAGGAGCCAGCTTCTCAGTGCAGCGCCGTGAAGGCTGTGCA  
GCATGGCAAGGCCATCTTCATCTGCCAGGCCTCCTCCAGCAGATGCAGCCCAGCCCGCTGCAGCACCAG  
TTCTCCATGCCCTCCGTGCCCGCCAGAACCTGCTGGATCACGAGGCCCTCATTGACCAGTACTTAA  
GGGACCCTAACCTTCACAAGAAGTATCGAGTGGGGCTGAACCGAGTTGCTGCCCAGGAGGTACCTATTGA  
GATCAAGGTGGTGAACCCACCCACCTGACCCAGCTGCAGGCACTGGAGCCAAACAGATGTTCTGGGTG  
CGTGCCCGGGGTACATTGGGGAAGGTGACATCAAGATGCATTGCTGTGGCTGCTTATATCTGACT  
ACGCCCTTCTGGGTACAGCACTGCTGCCCCACCAAGTCAAGTGAAGTGAAGTCAAGTCAAGTCAAGTCAAGT  
TCACTCCATGTGGTTTCATGCCCATTCAGGAGCCGACCACTGGATGCTGTACGAGTGTGAGAGCCCTGG  
GCTGGTGGCTCTCGAGGGCTGGTGCATGGCGGGTGTGGCGTCCGGATGGGGTCTTGTGTGACCTGTG  
CCCAGGAGGGTGTGATCCGATTGAAGCCTCAGGTGTCAGAGAGTAAGCTA**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_133240
Insert Size:	963 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_133240.2</a> , <a href="#">NP_573503.2</a>
<b>RefSeq Size:</b>	1161 bp
<b>RefSeq ORF:</b>	963 bp
<b>Locus ID:</b>	170789
<b>UniProt ID:</b>	<a href="#">P58137</a>
<b>Cytogenetics:</b>	2 H3
<b>Gene Summary:</b>	<p>Acyl-coenzyme A (acyl-CoA) thioesterases are a group of enzymes that catalyze the hydrolysis of acyl-CoAs to the free fatty acid and coenzyme A (CoASH), providing the potential to regulate intracellular levels of acyl-CoAs, free fatty acids and CoASH (PubMed:11673457). Acyl-coenzyme A thioesterase 8/ACOT8 display no strong substrate specificity with respect to the carboxylic acid moiety of Acyl-CoAs (PubMed:11673457). Hydrolyzes medium length (C2 to C20) straight-chain, saturated and unsaturated acyl-CoAs but is inactive towards substrates with longer aliphatic chains (PubMed:11673457). Moreover, it catalyzes the hydrolysis of CoA esters of bile acids, such as choloyl-CoA and chenodeoxycholoyl-CoA and competes with bile acid CoA:amino acid N-acyltransferase (BAAT) (PubMed:11673457). ACOT8 is also able to hydrolyze CoA esters of dicarboxylic acids (PubMed:16141203). It is involved in the metabolic regulation of peroxisome proliferation (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>