

Product datasheet for MC212427

Acot3 (NM_134246) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acot3 (NM_134246) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acot3
Synonyms:	AW108394; PTE-1a; Pte2a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC212427 representing NM_134246 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCACGCATTTACCACCCAGAACCCGAACCGGATGGCACCTACTGTGATCCTGGAGCCCGGGTGGTT
GCCTTTGTGACCAGCCGGTGCACATCGCTGTGCGCGCCCTGGCCCCGGAGCAGCCCGTACGCTGCGCTC
TGTCTGCGCGACGAGAAGGGCGCGCTCTCCGAGCCCACGCGCGCTACCGCGCGGACTCCCACGGCGAG
CTGGACCTGGCGCGCACGCCCGCTGGGCGGCAGCTTCTCGGGGCTCGAGCCATGGGGCTGCTCTGGG
CCATGGAGCCCGATCGGCCTTTCTGGCGCTGATCAAGCGCGACGTGCAGACGCCCTTTGTGGTGGAGCT
GGAGGTGCTGGACGGACACGAGCCCGACGGCGGGCAGCGGCTGGCGCGGGCGGTGCACGAGCGTCACTTC
ATGGCCCCGGGGTTCCGGCGCTGCCGGTGCAGGAGGGCCGGGTGCGCGCCACGCTTCTCCTGCCCCAG
GAACTGGACCCTTTCTGGAATCATAGACCTTTTTGGAATTGGAAGTGGCCTTCTGGAGTATCGGGCGAG
TCTGCTGGCTGGGAAGGGCTTTGCCGTATGGCTCTGGCTTATAACAACACGAGGACCTCCCTAAGGAC
ATGGACATTATCCACCTGGAGTACTTTGAGGAAGCTGTGACCTACCTGCTCAGTACCCTCAGGTAACAG
GTTCCAGGAGTCGGGTCCTTGGCATTTCCAAAGGGGTGAACCTTGCTTTGCCATGGCCTCCTTCTTGAA
AAATATCACAGCCGCTGTATCATCAATGGCTCTATATCCAACATCGGGCGAAACTTACAGTACAAGGAT
GAGACTGTGCCCTCCGTGGGCATAAACACCAAGCGAGTCAAGAGAACCAAGATGGCCTCAAAGACATTG
TGGATCTTCTAAACAATCCTTTGGAAGGACCTGACCAGAAGAGCTTGATCCCCTGGAAAGGTCTGACAC
AGCCTTCTGTTCTCGTAGGTGAGGACGACCACAACCTGGAAGAGCGAGTTCTATGCCAGAGAGGCTCC
AAACGCCTGCAGGCGCACGGGAAGGAGAAGCCCCAGATCATCTGCTACCCAGAGACAGGCCACCATATTG
AGCCTCCTACTTCCACTGTGTAAGGCTTCCCTGAACAGCCTGGTGGTGGTCTGTCATCTGGGGAGG
GGAGCCCAGGGCTCATGCCATGGCCAGGTGGACGCTTGGCAGCAACTCCAGACTTTTTTCCACAATCAT
TTGGATGGCAAAAAGAAGACAATCCAGCAAAACT**GTGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_134246
Insert Size:	1299 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).
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:	<ol style="list-style-type: none">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:	<u>NM_134246.3</u> , <u>NP_599007.1</u>
RefSeq Size:	2594 bp
RefSeq ORF:	1299 bp
Locus ID:	171281
UniProt ID:	<u>Q9QYR7</u>
Cytogenetics:	12 D1
Gene Summary:	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:16940157). Acyl-CoA thioesterase 3/ACOT3 is mainly active on long-chain acyl-CoAs (PubMed:15007068, PubMed:16940157). May have a function in termination of beta-oxidation of fatty acids (PubMed:16940157).[UniProtKB/Swiss-Prot Function]