

Product datasheet for MC212428

Acot4 (NM_134247) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Acot4 (NM_134247) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Acot4 |
| Synonyms: | B430212I04Rik; PTE-Ib; Pte1b; Pte2b |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| Fully Sequenced ORF: | >MC212428 representing NM_134247 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCAGCGACTGAGCGTGGAGCCCACGGGCCGAGCTGCTGGGACGAGCCGCTGAGCATCGCCGTGC
GCGGCCTGGCCCCGAGCAGCCCGTACGCTGCGCTCTGTCTGCGGACGAGAAGGGCGCGCTCTCCG
AGCCACGCGCGTACCGCGGACTCCACGGCGAGCTGGACCTGGCGCGCTGCCCGCTGGCGGC
AGCTTCTCGGGGCTCGAGCCATGGGGCTGCTCTGGGCCATGGAGCCGATCGGCCCTTCTGGCGCTGA
TCAAGCGCGACGTGCAGACGCCCTTCTTGGTGGAGCTGGAGGTGCTGGACGGACACGAGCCCGATGGCGG
GCGGCGGCTGGCGGGACGGTGCACGAGCGTCACTTCATGGCTCCCGGGTGGCGCGCTGCCCGTGGCG
GAGGGCCGGTGCAGCCACGCTCTTCTGCCCCAGGACAAGGACCCTTCCAGGCATCATCGATGTTT
ATGGTGTGGAGGAGCCTGTTGGAATACCGAGCCGCTTGTGGCTGGCCATGGCTTGGCACATTGGC
TCTGGCTTTTATGACTTTGAGGATCTCCCAAAGAGCTCAACGTCATAGAAGTGGACTACTTTGAAGAA
GCAGTGGGTACATGCTTCGACATCCAAAGTAAAAGGCCAGACATTGGGCTTCTGGCTTTCCCTAG
GAGCTGATGTCTGTCTGATCATGGCTTCTTCTTGAATAATGTCTCAGCCACAGTTTCCATCAATGGCTC
TGCATTAGTGGAAACAGACATATCAAGTACAAGCAGACCATGATTCCCGGTTGGGCCATGACCTGAGG
AGAATGAAGTGGCTTTCTTGGCATTCTGGACATTGTGGATATACGGAATGATGCTGTAGGAGGCTGTG
AGAACCCAGCATGATACCAATAGAGAAGGCCAAGGGGCCATCCTCTTTGTGGCTGGCCAGGATGATCA
TTGCTGGAGGAGTGAGTTATATACTCAGATAGCCTCGGACCGTTACAGGCTCATGGAAAGGAAAGGCC
CAGGACTCTTACCCTGGGACTGGGCATTACATCGAACACCTTACTTTCCATGTGCCAGCTTCCC
TGCACAAAATAGTGAACGAAGCTGTGATTTGGGAGGGGAGGTCAAGGCTCACTCCAAAGCCAGATAGA
TGCATGGAAGCAAATTCTATTCTTTGGCAAACACCTGGGCAGTACCCACAGCAGAGCCTCCTGTAGA
CTG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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| Restriction Sites: | Sgfl-Mlul |
| ACCN: | NM_134247 |
| Insert Size: | 1266 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: | NM_134247.3 , NP_599008.3 |
| RefSeq Size: | 2325 bp |
| RefSeq ORF: | 1266 bp |
| Locus ID: | 171282 |
| UniProt ID: | Q8BWN8 |
| 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:16141203, PubMed:16940157). In contrast to human peroxisomal succinyl-coenzyme A thioesterase/ACOT4, mouse ACOT4 is essentially a succinyl-CoA thioesterase with no activity with medium to long chain saturated acyl-CoAs and with a low activity toward glutaryl-CoA (PubMed:16141203, PubMed:16940157). [UniProtKB/Swiss-Prot Function] |