**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for MC209847

## Hacd1 (NM_013935) Mouse Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Hacd1 (NM_013935) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Hacd1 |
| **Synonyms:** | Ptpla |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Fully Sequenced ORF:** | >MC209847 representing NM_013935<br>Red=Cloning site Blue=ORF Orange=Stop codon<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGGCGTCCAGTGAGGAGGACGGCACCAACGGCGCCTCCGAGGCCAGCGACGAGAAGGAAGCCGCCGGCA<br>AGCGGAGACGCCTAGGCTTACTGGCCACCGCCTGGCTCACCTTCTACAATATCGCCATGACGGCCGGGTG<br>GTTGGTTCTTGCTATTGCTATGGTACGCTTTTATATGGAAAAAGGAACACACAGAGGTTTATATAAAAGC<br>ATTCAGAAGACACTTAAGTTTTTCCAAACATTTGCTTTGCTTGAGGTAGTCCATTGTCTGATCGGAATTG<br>TACCCACTTCTGTGCTTGTGACTGGGGTCCAAGTGAGCTCAAGAATCTTCATGGTGTGGCTCATTACTCA<br>CAGTATAAAACCCATCCAGAATGAAGAGAGCGTGGTGCTTTTTCTGGTCTCCTGGACTGTGACCGAGATC<br>ACTCGCTATTCCTTCTACACATTCAGTCTCCTCGACCACTTGCCGCACTTCATTAAATGGGCCAGATACA<br>ATTTGTTTATCATCTTATATCCCGTTGGAGTTGCTGGGGAACTTCTCACAATATACGCCGCCTTGCCTTA<br>CGTAAAGAAGTCAGGAATGTTCTCAGTACGGCTTCCCAACAAGTACAATGTTTCTTTTGACTACTACTAT<br>TTTCTTCTCATAACCATGGCCTCCTATATACCGTTGTTTCCTCAGCTCTATTTTCATATGTTACGTCAGA<br>GAAGAAAGGTGCTCCACGGGGAGGTGATCGCGGAGAAGGACGATTAA<br><br>ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br>ACAAGGATGACGACGATAAGGTTTAA |
| **Restriction Sites:** | SgfI-MluI |
| **ACCN:** | NM_013935 |
| **Insert Size:** | 747 bp |

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| **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:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_013935.3, NP_038963.3 |
| **RefSeq Size:** | 1015 bp |
| **RefSeq ORF:** | 747 bp |
| **Locus ID:** | 30963 |
| **UniProt ID:** | Q9QY80 |
| **Cytogenetics:** | 2 A1- A2 |
| **Gene Summary:** | Catalyzes the third of the four reactions of the long-chain fatty acids elongation cycle. This endoplasmic reticulum-bound enzymatic process, allows the addition of two carbons to the chain of long- and very long-chain fatty acids/VLCFAs per cycle. This enzyme catalyzes the dehydration of the 3-hydroxyacyl-CoA intermediate into trans-2,3-enoyl-CoA, within each cycle of fatty acid elongation. Thereby, it participates in the production of VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators.[UniProtKB/Swiss-Prot Function]<br>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). |

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