

## Product datasheet for **MC205407**

### **Hacd3 (NM\_021345) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Hacd3 (NM_021345) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hacd3
Synonyms:	4930523M17Rik; AW742319; B-ind1; Hcad3; Hspc121; Ptplad1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC031755  
 GCGCGAGCCGCGAGCGTGGGTTATCTCGAGACAGCCGGGCTGCGGGCTGCGGAGCGTGCGGGTCTGAGGC  
 CTGCGTTCGCTAGTCCAGCGGCTCACAGGCCGAGGTAACGAGGCGCAGCAAGCCGAGCCTCCCCGCTC  
 CCCCAGACAGCGTGGGCCATGGAGACTCAAGTGTGACGCCGATGTCTACTGGGCTCAGCGACACCCGG  
 AGCTGTATCTGCGCGTGGAGCTGAGTGCAGTGCAGAACCTGCTATCAGCATCACAGACAATGTGCTGCA  
 TTTCAAAGCTCAGGGACACGGTGCCAAAGGAGACAATGTCTATGAATTTACCTGGAGTTCTTAGAGCTT  
 GTGAAGCCAGAGCCGGCTACAGGCTGACCCAGAGGCAGGTGAACATCACAGTCCAGAAGAAGGGGAGTC  
 ATTGTTGGGAAAAGGCTCACCAAGCAAGAGAAGCGCCATTGTTTTTGGCCCTGACTTTGATCGCTGGCT  
 GGATGAATCTGATGCGGAAATGGAGCTGAGAGCCAAGGAGGAAGAAGCCCTAAATAAACTCAGACTAGAA  
 AGGGAAGGCTCCCCTGAAACTCTTACAACTTGAAGAAAGGGTACCTGTTTCATGTACAACCTTGTGCAGC  
 TCCTGGGTTTCTCTGGATCTTTGTCAACCTCACAGTGCAGTTCTTTATTTTAGGAAAAGAGTCTTCTA  
 TGACACGTTCCACAATGTGGCTGACATGATGATTTTCTGCCAGATGCTGGCACTAGTGGAAACCCTCAAT  
 GCTGCGATTGGGGTCAAGTACCCCGGTGCTGCCTGCTCTCATCCAGTTTCTTGAAGAAATTTTATTC  
 TGTTTCTGTTTTCGGCACCATGGAAGAAATGCAAAACAAGCTGTGGTTTTCTTTGTGTTTTATTCCTG  
 GAGCGCAATTGAAATCTCAGGTATCCCTTCTACATGCTCTCCTGCATTGACATGGACTGGAAGGTGCTC  
 ACGTGGCTCCGTTACACTATGTGGATTCCATTATATCCCTGGGATGTTTGTGAGAGCTGTGGCAGTGA  
 TCCAGTCCATTCCAGTATTCAACGAGTCGGGAAGGTTCAGTTTTACTTTGCCATATCCAGTGAAGATGAA  
 AGTCAGATTTTCTTCTTCTTCAAGTTTATCTCGTAATGTTATTTTTAGGGTTATATTAATTTTCGT  
 CACCTTTATAACAGCGCAGGAGGCGGTATGGACAAAAGAAGAAAAGCTCCACTAAAGATGAATTTGGT  
 AGCTTCATTTGAGCAGAGTCTATGATTCCTACTTCTACTTCTGTACTGATATAAGGGTTTGTGTTTGT  
 TTTGTTTTTAAAGTAAGGCTGTCTCTTTCCAGTAACATTCTGAGTCTACTGTCCTTATCTTAGTG  
 TTGACTTGCATGACATGGATATCTGGTATCTGAGGACAAGTTCATTCTGTGTATTTAATGACAAAAGGT  
 GGCCCTTTCATGTCTGCTCCTCCCTACAGGCACTGTCTGTCTTACAGGGCTTGGTCTTCTGTCGCA  
 CTTGTGAAAACCGAAAAAAAACAAGACTACATAGCACGGACTTTTTGAAAATCAGATAAACATGGTTAT  
 TGACATTTTTTGTGAGTCAGAGTAGGGCTGGAGAACACTTCATATTTGATGCATTTTAGCTAAAGACATTCA  
 TTAATATAGCACTTCCCAGGCATTGAAGAGGCAGAGTGATTTAGAGAACGAAATCAGAACCTGGGAACAC  
 CATGACTACTTCTTCTAGCTAAATCAGAACTGCCTTCAACACTGGAGAAAGGGAGAAGTACTGCGCAA  
 CAGAGATTAGAAGTCAAATGTGAATGGCTGCAGGGGTCAGAAGGGAACAGAGATGCAGGAGACAGGCAG  
 GATCAGTTGTGGTAATGATGCCTGTGGCAAACACAAACACCTACTGGGCTGCACACAGTCACACAATCA  
 ATCTATAATTCTGGGGTAGCTCAGTCCATTTACTTGTGATTTTCTGAGTGGTTGGTGAGATTACTTTA  
 TTGAAGTGTTTTTTCTTGTAGATTTTTTTTTCTTTTTTTGTTTTTAAAGATAGGGTTGTTCTGTG  
 TAGCTTTGGCTCTCCTAGAACTTGTCTGTAGACCAGGCTGGCCTTGAACACAGAAAGAGATTATCTGTC  
 CTCTGCCTCCTGAGTGTGGGATTAAGGCAAAAGCCACCACAGCCTGTTTTGTTTTGTTTTCGGTTTAA  
 AAACAACAACAACTGTGTGCATGCAGAATACAGACCTTGAGGTTGGCTACTGTTCAAGACAGCTTCAGT  
 CTCTCTACCACATTCCATGTAACCTATGGTGAAGTAACACCAGAAAAAGAGCCTGAGAGTGGTCGCTT  
 CCATTTTCCACTCCCCTTGTCTTGGGGGAAAGGAAGGAGACTTCTGCTGTTGCAGTGAAGCCAGAGTG  
 GATTGGCATTAACTGGCTGCTTGGACACCTCATCTCACCCAAGAGTATTTCCAAGTCTGCAGCTTC  
 TGTCAGCGATTGTTGTGTACCTTCTGGTGTCCCTCACTGATTGTGGACAAACCTGGCAGTTGAGCTTC  
 GCAGTCAATTATGCCGTATCCCTGTGCAAACTCCATGTTCTAGTTGCTGTTAGCATCCCCTTTGTTGCT  
 GTCTGAGAAAGTGAAGATTGTGATTTTCTATTAACATTTACAGTCAAATCCTAAAAAAAAAAAAAAA AAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_021345

**Insert Size:** 1089 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).

<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>	<u><a href="#">BC031755</a></u> , <u><a href="#">AAH31755</a></u>
<b>RefSeq Size:</b>	2733 bp
<b>RefSeq ORF:</b>	1089 bp
<b>Locus ID:</b>	57874
<b>UniProt ID:</b>	<u><a href="#">Q8K2C9</a></u>
<b>Cytogenetics:</b>	9 C
<b>Gene Summary:</b>	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. Involved in Rac1-signaling pathways leading to the modulation of gene expression. Promotes insulin receptor/INSR autophosphorylation and is involved in INSR internalization (By similarity).[UniProtKB/Swiss-Prot Function]