

Product datasheet for **MC204564**

Hacd2 (NM_023587) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hacd2 (NM_023587) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hacd2
Synonyms:	6330408J20Rik; AI255777; AI481689; Hcad2; Ptplb
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC027289 GCAGGCGCGAGGGGAGCGGGGTTGCGGGCGCTTGACATGGCGGCAGCGGGCGGCGACTGCAGCGACCAAGG GGAATGGGGGCGGCAGTGGCCGAGTCGGGGCTGGCGACAGCAGCGCGCGGAAGAAGAAGGGCCCGG GCCTGTGGCCACGGCGTACCTGGTCATCTACAATGTGGTATGACGGCGGGTGGCTGGTATAGCAGTT GGGCTGGTGAGAGCATACCTGGCTAAGGGGAGCTACCATAGCCTTTATTATTCAATAGAAAGGCCTTTGA AGTTCTCCAGACAGGAGCCTTACTGGAGATTTTACATTGTGCTATAGGGATTGTGCCATCTTCTGTTGT CCTGACTTCTTTCCAGGTGATGTCAAGAGTTTTCTAATATGGGCAGTGACACATAGTGTCAAAGAGGTG CAGAGTGAAGACAGTGTACTTCTGTTTGTGCTTGCCTGGACAATCACGAAATTATCCGTTACTCCTTTT ACACATTCAGTCTATTAACCATCTGCCTTATATCATCAAATGGGCCAGGTACACACTTTTCATCGTGCT GTACCCAATGGGAGTGACAGGAGAGCTCCTCACAATATACGCAGCTCTGCCCTTTGTCCGGCAGGCCGGC CTGTACTCCATCAGCTTACCTAACAAATAACAATTCTCCTTTGATTACCATGCATTCTGATTCTGATCA TGATCTCCTACATTCCACTGTTCCCCAGTTGACTTCCACATGATACCCAGAGAAGAAAGGTCCTTTT TCACACCGAAGAACATAAGAAGTTTGAGTAGCGCTCCACACCACCCAAACCAGACTTTTCAATGATCAA AATATGCTGCAGACTTTTGGAGTCCCAGTAAGAACTATTTTTAAAAATATAAAACAAAATAAA AAACAAAATCCAGTGTACACAGGCCTGGGATTTTATAAAAAATAAAAAATAAAAGATTAATAAAAAA AAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_023587
Insert Size:	765 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).



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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:	BC027289 , AAH27289
RefSeq Size:	985 bp
RefSeq ORF:	765 bp
Locus ID:	70757
UniProt ID:	Q9D3B1
Cytogenetics:	16 B3
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]