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## Product datasheet for MR225241

## Hacd1 (NM_013935) Mouse Tagged ORF Clone

## Product data:

Product Type:
Product Name:

## Tag:

Symbol:
Synonyms:
Mammalian Cell
Selection:
Vector:
E. coli Selection:

ORF Nucleotide
Sequence:

Expression Plasmids
Hacd1 (NM_013935) Mouse Tagged ORF Clone
Myc-DDK
Hacd1
Ptpla
Neomycin
pCMV6-Entry (PS100001)
Kanamycin ( $25 \mathrm{ug} / \mathrm{mL}$ )
>MR225241 representing NM_013935
Red=Cloning site Blue=ORF Green=Tags(s)

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## TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

 GCCGCGATCGCCATGGCGTCCAGTGAGGAGGACGGCACCAACGGCGCCTCCGAGGCCAGCGACGAGAAGGAAGCCGCCGGCA AGCGGAGACGCCTAGGCTTACTGGCCACCGCCTGGCTCACCTTCTACAATATCGCCATGACGGCCGGGTG GTTGGTTCTTGCTATTGCTATGGTACGCTTTTATATGGAAAAAGGAACACACAGAGGTTTATATAAAAGC ATTCAGAAGACACTTAAGTTTTTCCAAACATTTGCTTTGCTTGAGGTAGTCCATTGTCTGATCGGAATTG TACCCACTTCTGTGCTTGTGACTGGGGTCCAAGTGAGCTCAAGAATCTTCATGGTGTGGCTCATTACTCA CAGTATAAAACCCATCCAGAATGAAGAGAGCGTGGTGCTTTTTCTGGTCTCCTGGACTGTGACCGAGATC ACTCGCTATTCCTTCTACACATTCAGTCTCCTCGACCACTTGCCGCACTTCATTAAATGGGCCAGATACA ATTTGTTTATCATCTTATATCCCGTTGGAGTTGCTGGGGAACTTCTCACAATATACGCCGCCTTGCCTTA CGTAAAGAAGTCAGGAATGTTCTCAGTACGGCTTCCCAACAAGTACAATGTTTCTTTTGACTACTACTAT TTTCTTCTCATAACCATGGCCTCCTATATACCGTTGTTTCCTCAGCTCTATTTTCATATGTTACGTCAGA GAAGAAAGGTGCTCCACGGGGAGGTGATCGCGGAGAAGGACGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA


| Reconstitution Method: | 1. Centrifuge at $5,000 \mathrm{xg}$ for 5 min . <br> 2. Carefully open the tube and add 100 ul 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 5000 xg ) to concentrate the liquid at the bottom. <br> 5. Store the suspended plasmid at $-20^{\circ} \mathrm{C}$. The DNA is stable for at least one year from date of shipping when stored at $-20^{\circ} \mathrm{C}$. |
| :---: | :---: |
| RefSeq: | NM 013935.3 NP 038963.3 |
| RefSeq Size: | 1015 bp |
| RefSeq ORF: | 747 bp |
| Locus ID: | 30963 |
| UniProt ID: | Q90Y80 |
| Cytogenetics: | 2 A 1 - A2 |
| MW: | 29 kDa |
| 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] |

## Product images:



