

Product datasheet for **RC200197**

2 Hydroxy phytanoyl CoA lyase (HACL1) (NM_012260) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	2 Hydroxy phytanoyl CoA lyase (HACL1) (NM_012260) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	2 Hydroxy phytanoyl CoA lyase
Synonyms:	2-HPCL; HPCL; HPCL2; PHYH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC200197 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGGACAGTAACTTCGAGAGCGCAGCGAGGAGCAGGTGTCTGGTGCTAAAGTCATCGCTCAGGCC
 TGA AACGCAAGATGTGGAGTACATATTTGGCATCGTAGGCATCCAGTGACCGAAATCGCCATTGCTGC
 CCAGCAGCTAGGCATCAAGTACATCGGGATGAGGAATGAGCAAGCGGCTTGTATGCTGCCTCCGCGATT
 GGATATCTGACAAGCAGGCCAGGAGTCTGCCTTGTGTTTCTGGCCAGGTCTCATCCATGCCTTGGGCG
 GTATGGCAAATGCAAACATGAACTGCTGGCCCTTGTGTTGATTGGTGGTTCCTCTGAAAGAAACCAAGA
 AACAAATGGGAGCTTCCAGGAGTTTCTCAGGTTGAAGCTTGTAGATTATATACCAAGTTCTCTGCCCGC
 CCAAGCAGCATAGAAGCTATTCCTTTTGTATTGAAAAGGCAGTGAGAAGCAGTATCTATGGTCGTCAG
 GTGCTTGCTATGTTGACATACCAGCAGATTTTGTGAACCTTCAGGTGAATGTGAATTCTATAAAGTACAT
 GGAACGCTGCATGTCACCTCCTATTAGCATGGCAGAACTCTGCTGTGTGCACGGCGGCTTCTGTTATT
 AGGAATGCCAAACAACCCCTTCTATCATCGGGAAAGGTGCTGTTACGCTCATGAGAAGAGAGTATCA
 AGAAATGGTGGAGCAATATAAACTGCCATTTTGGCCACCCCTATGGGGAAGGGTGTGTCCTGACAA
 CCATCCATACTGTGTAGGTGCAGCCAGATCCAGGGCTTTCGAATTTGCTGATGTAATTGTGTTATTTGGT
 GCCAGACTAAATTTGGATTTTACATTTTGGACTGCCTCAAAGATATCAGCCAGATGTGAAGTTTATCCAGG
 TTGATATCTGTGAGAAGAATTTGGGGAATAATGTAAGCCCGCTGTTACTTTGCTAGGAAACATACATGC
 TGTCACTAAGCAGCTTTTAGAGGAACCTTGATAAAAACCCATGGCAGTATCCTCCAGAGAGCAAGTGGTGG
 AAAACTCTGAGAGAAAAAATGAAGAGCAATGAAGCTGCATCCAAGGAAGTACTTCTAAAAATCCCTGC
 CTATGAATTTACACAGTATTCTACCATGTTCAAGAACAACCTAGAGACTGTTTCGTGGTAAAGTGA
 AGGAGCAAATACTATGGACATTGGACGGACTGTGCTTCAGAAGTACCTTCCTCGTCACAGGCTTGATGCT
 GGTACTTTTCGGAACAATGGGAGTTGGTTTGGGATTTGCTATTGCAGCTGCCGTGGTGGCTAAAGATAGAA
 GCCCTGGGCAATGGATCATCTGTGTGGAAGGAGACAGTGCATTTGGGTTTTCTGGCATGGAGGTAGAAAC
 CATCTGCAGGTACAACCTGCCAATCATACTGTTGGTAGTGAATAACAATGGAATTTACCAAGTTTTGAT
 ACAGATACTTGGAAAGAAATGTTAAAATTTCAAGATGCTACTGCAGTGGTCCCTCCAATGTGTTTGTCTGC
 CAAATTCACATTATGAGCAAGTCATGACTGCATTTGGAGGCAAAGGGATTTTGTACAAACACCAGAAGA
 ACTCCAAAAATCCCTGAGGCAGAGCCTAGCAGACACAACAACTAACCTTCTCTTATCAACATCATGATTGAG
 CCCAAGCCACACGGAAGGCCAGGATTTTCATTGGCTGACCCGCTCTAATATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200197 protein sequence
 Red=Cloning site Green=Tags(s)

MPDSNFAERSEEQVSGAKVIAQALKTQDVEYIFGIVGIPVTEIAIAAQLGIKYIGMRNEQAACYAASAI
 GYLTSRPGVCLVVSGLIHALGGMANANMNCWPLLVIIGSSERNQETMGAFQEFPPQVEACRLYTKFSAR
 PSSIEAIPFVIEKAVRSSYGRPGACYVDIPADFVNLQVNVNSIKYMERCMSPPISMAETSAVCTAASVI
 RNAKQPLLIIGKGAAYAHAEESIKKLVEQYKLPFLPTPMGKGVVDPNHPYCVGAARSRALQFADVIVLFG
 ARLNWLHFGLPPRYQPDVKFIQVDICAEELGNNVKAAPTLLGNIHAVTKQLLEELDKTPWQYPPESKWW
 KTLREKMSNEAASKELASKKSLPMNYTVFYHVQEQLPRDCFVVSEGANTMDIGRTVLQNYLPRHRLDA
 GTFGTMGVGLGFAIAAAVVAKDRSPQWIIICVEGDSAFGFSGMEVETICRYNLPILLVNNNGIYQGF
 TDTWKEMLKFDATAVVPPMCLLPNSHYEQVMTAFGGKGYFVQTPPEELQKSLRQSLADTTKPSLINIMIE
 PQATRKAQDFHWLTRS NM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6588_b12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_012260

ORF Size: 1734 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
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_012260.4](#)

RefSeq Size: 2287 bp

RefSeq ORF: 1737 bp

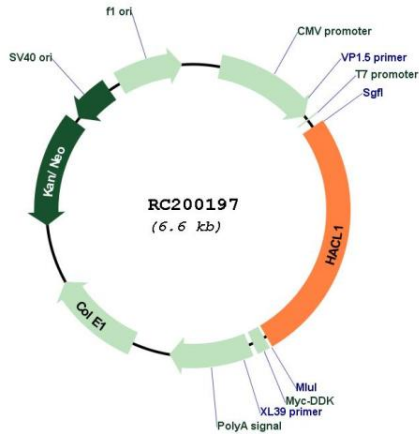
Locus ID: 26061

UniProt ID: [Q9UJ83](#)

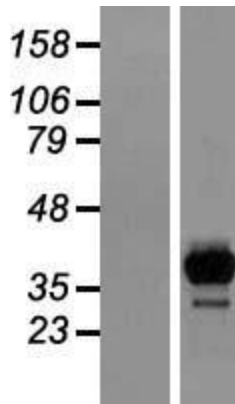
Cytogenetics: 3p25.1

Domains: TPP_enzymes
MW: 63.7 kDa
Gene Summary: Catalyzes a carbon-carbon cleavage reaction; cleaves a 2-hydroxy-3-methylacyl-CoA into formyl-CoA and a 2-methyl-branched fatty aldehyde.[UniProtKB/Swiss-Prot Function]

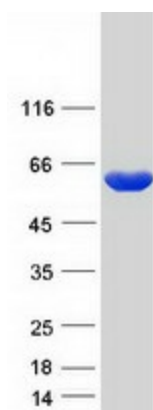
Product images:



Circular map for RC200197



Western blot validation of overexpression lysate (Cat# [LY415873]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200197 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HACL1 protein (Cat# [TP300197]). The protein was produced from HEK293T cells transfected with HACL1 cDNA clone (Cat# RC200197) using MegaTran 2.0 (Cat# [TT210002]).