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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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGGACAGTAACTTCGCAGAGCGCAGCGAGGAGCAGGTGTCTGGTGCTAAAGTCATCGCTCAGGCCC
TGAAAACGCAAGATGTGGAGTACATATTTGGCATCGTAGGCATCCCAGTGACCGAAATCGCCATTGCTGC
CCAGCAGCTAGGCATCAAGTACATCGGGATGAGGAATGAGCAAGCGGCTTGTTATGCTGCCTCCGCGATT
GGATATCTGACAAGCAGGCCAGGAGTCTGCCTTGTTGTTTCTGGCCCAGGTCTCATCCATGCCTTGGGCG
GTATGGCAAATGCAAACATGAACTGCTGGCCCTTGCTTGTGATTGGTGGTTCCTCTGAAAGAAACCAAGA
AACAATGGGAGCTTTCCAGGAGTTTCCTCAGGTTGAAGCTTGTAGATTATATACCAAGTTCTCTGCCCGC
CCAAGCAGCATAGAAGCTATTCCTTTTGTTATTGAAAAGGCAGTGAGAAGCAGTATCTATGGTCGTCCAG
GTGCTTGCTATGTTGACATACCAGCAGATTTTGTGAACCTTCAGGTGAATGTGAATTCTATAAAGTACAT
GGAACGCTGCATGTCACCTCCTATTAGCATGGCAGAAACCTCTGCTGTGTGCACGGCGGCTTCTGTTATT
AGGAATGCCAAACAACCCCTTCTTATCATCGGGAAAGGTGCTGCTTACGCTCATGCAGAAGAGAGTATCA
AGAAATTGGTGGAGCAATATAAACTGCCATTTTTGCCCACCCCTATGGGGAAGGGTGTTGTCCCTGACAA
CCATCCATACTGTGTAGGTGCAGCCAGATCCAGGGCTTTGCAATTTGCTGATGTAATTGTGTTATTTGGT
GCCAGACTAAATTGGATTTTACATTTTGGACTGCCTCCAAGATATCAGCCAGATGTGAAGTTTATCCAGG
TTGATATCTGTGCAGAAGAATTGGGGAATAATGTAAAGCCCGCTGTTACTTTGCTAGGAAACATACATGC
TGTCACTAAGCAGCTTTTAGAGGAACTTGATAAAACACCATGGCAGTATCCTCCAGAGAGCAAGTGGTGG
AAAACTCTGAGAGAAAAAATGAAGAGCAATGAAGCTGCATCCAAGGAACTAGCTTCTAAAAAATCCCTGC
CTATGAATTATTACACAGTATTCTACCATGTTCAAGAACAACTACCTAGAGACTGTTTCGTGGTAAGTGA
AGGAGCAAATACTATGGACATTGGACGGACTGTGCTTCAGAACTACCTTCCTCGTCACAGGCTTGATGCT
GGTACTTTCGGAACAATGGGAGTTGGTTTGGGATTTGCTATTGCAGCTGCCGTGGTGGCTAAAGATAGAA
GCCCTGGGCAATGGATCATCTGTGTGGAAGGAGACAGTGCATTTGGGTTTTCTGGCATGGAGGTAGAAAC
CATCTGCAGGTACAACTTGCCAATCATACTGTTGGTAGTGAATAACAATGGAATTTACCAAGGTTTTGAT
ACAGATACTTGGAAAGAAATGTTAAAATTTCAAGATGCTACTGCAGTGGTCCCTCCAATGTGTTTGCTGC
CAAATTCACATTATGAGCAAGTCATGACTGCATTTGGAGGCAAAGGGTATTTTGTACAAACACCAGAAGA
ACTCCAAAAATCCCTGAGGCAGAGCCTAGCAGACACAACTAAACCTTCTCTTATCAACATCATGATTGAG
CCCCAAGCCACACGGAAGGCCCAGGATTTTCATTGGCTGACCCGCTCTAATATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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

MPDSNFAERSEEQVSGAKVIAQALKTQDVEYIFGIVGIPVTEIAIAAQQLGIKYIGMRNEQAACYAASAI
GYLTSRPGVCLVVSGPGLIHALGGMANANMNCWPLLVIGGSSERNQETMGAFQEFPQVEACRLYTKFSAR
PSSIEAIPFVIEKAVRSSIYGRPGACYVDIPADFVNLQVNVNSIKYMERCMSPPISMAETSAVCTAASVI
RNAKQPLLIIGKGAAYAHAEESIKKLVEQYKLPFLPTPMGKGVVPDNHPYCVGAARSRALQFADVIVLFG
ARLNWILHFGLPPRYQPDVKFIQVDICAEELGNNVKPAVTLLGNIHAVTKQLLEELDKTPWQYPPESKWW
KTLREKMKSNEAASKELASKKSLPMNYYTVFYHVQEQLPRDCFVVSEGANTMDIGRTVLQNYLPRHRLDA
GTFGTMGVGLGFAIAAAVVAKDRSPGQWIICVEGDSAFGFSGMEVETICRYNLPIILLVVNNNGIYQGFD
TDTWKEMLKFQDATAVVPPMCLLPNSHYEQVMTAFGGKGYFVQTPEELQKSLRQSLADTTKPSLINIMIE
PQATRKAQDFHWLTRSNM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

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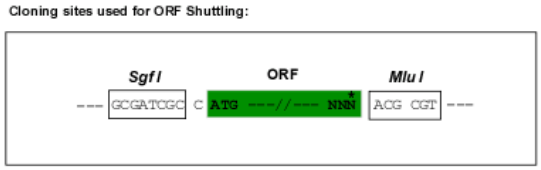
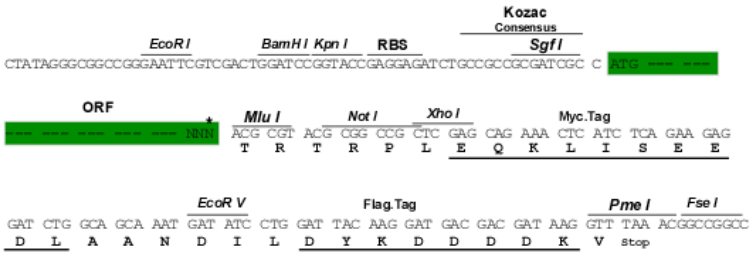
Cloning Scheme:





* The last codon before the Stop codon of the ORF

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_012260.4

RefSeq Size: 2287 bp

RefSeq ORF: 1737 bp

Locus ID: 26061

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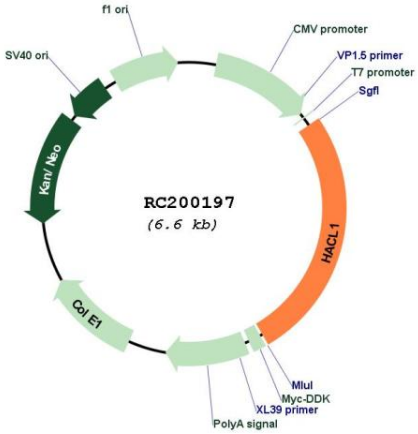
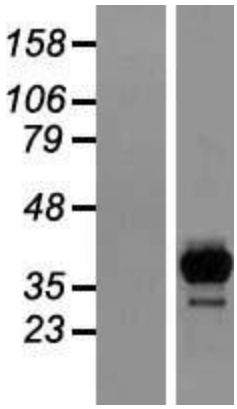
UniProt ID:	Q9UJ83
Cytogenetics:	3p25.1
Domains:	TPP_enzymes
MW:	63.7 kDa
Gene Summary:	Catalyzes a carbon-carbon cleavage reaction; cleaves a 2-hydroxy-3-methylacyl-CoA into formyl-CoA and a 2-methyl-branched fatty aldehyde.[UniProtKB/Swiss-Prot Function]

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 un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200197 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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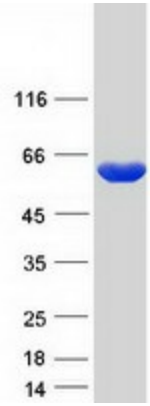

Coomassie blue staining of purified HACL1 protein (Cat# [TP300197]). The protein was produced from HEK293T cells transfected with HACL1 cDNA clone (Cat# RC200197) using MegaTran 2.0 (Cat# [TT210002]).

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