

Product datasheet for **RC238861**

2 Hydroxy phytanoyl CoA lyase (HACL1) (NM_001284413) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	2 Hydroxy phytanoyl CoA lyase (HACL1) (NM_001284413) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HACL1
Synonyms:	2-HPCL; HPCL; HPCL2; PHYH2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238861 representing NM_001284413
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGACAGTAACTTCGCAGAGCGCAGCGAGGAGCAGGTGTCTGGTGCTAAAGTCATCGCTCAGGCC
 TGA AACGCAAGATGTGGAGTACATATTTGGCATCGTAGGCATCCAGTGACCGAAATCGCCATTGCTGC
 CCAGCAGCTAGGCATCAAGTACATCGGGATGAGGAATGAGCAAGCGGCTTGTTATGCTGCCTCCGCGATT
 GGATATCTGACAAGCAGGCCCTTGCTTGTGATTGGTGGTTCCTCTGAAAGAAACCAAGAAACAATGGGAG
 CTTTCCAGGAGTTTCTCAGGTTGAAGCTTGTAGATTATATACCAAGTCTCTGCCCGCCCAAGCAGCAT
 AGAAGCTATTCCTTTGTTATTGAAAAGGCAGTGAGAAGCAGTATCTATGGTCGTCAGGTGCTTGTCTAT
 GTTGACATACCAGCAGATTTTGTAACTTCAGGTGAATGTGAATTCTATAAAGTACATGGAACGCTGCA
 TGTACCTCTATTAGCATGGCAGAACTCTGCTGTGTGCACGGCGGCTTCTGTTATTAGGAATGCCAA
 ACAACCCCTTCTATCATCGGAAAGGTGCTGCTTACGCTCATGCAGAAGAGAGTATCAAGAAATGGTG
 GAGCAATATAAATGCCATTTTTGCCACCCCTATGGGGAAGGGTGTGTCCCTGACAACCATCCATACT
 GTGTAGGTGCAGCCAGATCCAGGGCTTTCGAATTTGCTGATGTAATTGTGTTATTTGGTGCCAGACTAAA
 TTGGATTTTACATTTGGACTGCCTCCAAGATATCAGCCAGATGTGAAGTTTATCCAGGTTGATATCTGT
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 ACAACTTGCCAATCACTACTGTTGGTAGTGAATAACAATGGAATTTACCAAGGTTTTGATACAGATACTTG
 GAAAGAAATGTTAAAATTTCAAGATGCTACTGCAGTGGTCCCTCAATGTGTTTGTGCCAAATTCACAT
 TATGAGCAAGTCATGACTGCATTTGGAGGCAAAGGATTTTTGTACAACACCAGAAGAACTCCAAAAAT
 CCCTGAGGCAGAGCCTAGCAGACACAACCTAACCTTCTCTATCAACATCATGATTGAGCCACAAGCCAC
 ACGGAAGGCCAGGATTTTCATTGGCTGACCCGCTCTAATATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238861 representing NM_001284413
 Red=Cloning site Green=Tags(s)

MPDSNFAERSEEQVSGAKVIAQALKTQDVEYIFGIVGIPVTEIAIAAQLGIKYIGMRNEQAACYAASAI
 GYLTSRPLLVIIGSSERNQETMGAFQEFQVEACRLYTKFSARPSSIEAIPFVIEKAVRSSIIYGRPGACY
 VDIPADVFNLQVNVNSIKYMERCMSPPI SMAETS AVCTAASVIRNAKQPLLIIGKGAAYAHAEESIKKLV
 EQYKLPFLPTPMGKGVVDPDNHPYCVGAARSRALQFADVIVLFGARLNLWILHFGLPARYQPDVKFIQVDIC
 AEELGNNVKPAVTLGNIHAVTKQLLEELDKTPWQYPPESKWWKTLREKMSNEAASKELASKSLPMNY
 YTVFYHVQEQLPRDCFVSEGAN TMDIGRTVLQNYLPRHRLDAGTFGTMGVGLGFAIAAAVVAKDRSPGQ
 WIICVEGDSAFGFSGMEVETICRYNLP IILLVNNNGIYQGFDTDTWKEMLKFQDATAVPPMCLLPNSH
 YEQVMTAFGGKGYFVQTPEELQKSLRQSLADTTKPSLINIMIEPQATRKAQDFHWL TRSNM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

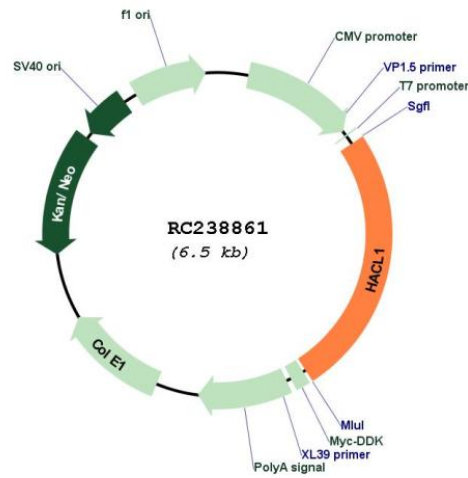
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001284413
ORF Size:	1653 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:	<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:	NM_001284413.2
RefSeq Size:	2206 bp
RefSeq ORF:	1656 bp
Locus ID:	26061
UniProt ID:	Q9UJ83
Cytogenetics:	3p25.1
MW:	61.5 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]