

Product datasheet for **RC238687**

2 Hydroxy phytanoyl CoA lyase (HACL1) (NM_001284415) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	2 Hydroxy phytanoyl CoA lyase (HACL1) (NM_001284415) 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:

>RC238687 representing NM_001284415
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGGACAGTAACTTCGCAGAGCGCAGCGAGGAGCAGGTGTCTGGTGCTAAAGTCATCGCTCAGGCC
 TGA AACGCAAGATGTGGAGTACATATTTGGCATCGTAGGCATCCAGTGACCGAAATCGCCATTGCTGC
 CCAGCAGCTAGGCATCAAGTACATCGGGATGAGGAATGAGCAAGCGGCTTGTATGCTGCCTCCGCGATT
 GGATATCTGACAAGCAGGCCAGGAGTCTGCCTTGTGTTTCTGGCCAGGTCTCATCCATGCCTTGGGCG
 GTATGGCAAATGCAAACATGAACTGCTGGCCCTTGTGTTGATTGGTGGTTCCTCTGAAAGAAACCAAGA
 AACAAATGGGAGCTTCCAGGAGTTTCTCAGGCAGTGAGAAGCAGTATCTATGGTCGTCAGGTGCTTGC
 TATGTTGACATACCAGCAGATTTGTGAACCTTCAGGTGAATGTGAATCTATAAAGTACATGGAACGCT
 GCATGTCACCTCCTATTAGCATGGCAGAAACCTCTGCTGTGTGCACGGCGGCTTCTGTTATTAGGAATGC
 CAAACAACCCCTTCTTATCATCGGAAAGGTGCTGCTTACGCTCATGCAGAAGAGAGTATCAAGAAATTG
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 ACTGTGTAGGTGCAGCCAGATCCAGGGCTTGCATTTGCTGATGTAATTGTGTTATTTGGTGCCAGACT
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 AGCAGGAACTAGCTTCTAAAAATCCCTGCCTATGAATTATTACACAGTATTCTACCATGTTCAAGAACA
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 AACTACCTTCTCGTACAGGCTTGTGCTGGTACTTTCGGAACAATGGGAGTTGGTTGGGATTGCTA
 TCTCAGCTGCCGTGGTGGCTAAAGATAGAAGCCCTGGGCAATGGATCATCTGTGTGGAAGGAGACAGTGC
 ATTTGGGTTTTCTGGCATGGAGGTAGAAACCATCTGCAGGTACAACCTTGCCAATCATACTGTTGGTAGT
 AATAACAATGGAATTTACCAAGTTTTGATACAGATACTTGGAAAGAAATGTTAAATTTCAAGATGCTA
 CTGCAGTGGTCCCTCCAATGTGTTTGTGCCAAATTCACATTATGAGCAAGTCATGACTGCATTTGGAGG
 CAAAGGTATTTGTACAAACACCAGAAGAACTCCAAAAATCCCTGAGGCAGAGCCTAGCAGACACAAC
 AAACCTTCTCTTATCAACATCATGATTGAGCCACAAGCCACACGGGAAGGCCAGGATTTTCATTGGCTGA
 CCCGCTAATATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238687 representing NM_001284415
 Red=Cloning site Green=Tags(s)

MPDSNFAERSEEQVSGAKVIAQALKTQDVEYIFGIVGIPVTEIAIAAQQLGIKYIGMRNEQAACYAASAI
 GYLTSRPGVCLVVSGLIHALGGMANANMNCWPLLVIIGSSERNQETMGAFFQAVRSEIYGRPGAC
 YVDIPADFVNLQVNVNSIKYMERCMSPPISMAETSAVCTAASVIRNAKQPLLIIGKGAAYAHAEESIKKL
 VEQYKLPFLPTPMGKGVVDPNHPYCVGAARSRALQFADVIVLFGARLNWILHFGLPPRYQPDVKFIQVDI
 CAEELGNVVKPAVTLNLGNIHAVTKQELASKKSLPMNYTVFYHVQEQLPRDCFVSEGANMMDIGRTVLQ
 NYLPRHRLDAGTFGTMGVGLGFAIAAAVVAKDRSPGQWIIICVEGDSAFGFSGMEVETICRYNLPILLV
 NNGIYQGFDDTDWKEMLFQDATAVVPMPCLLPNSHYEQVMTAFGGKGYFVQTPEELQKSLRQSLADTT
 KPSLINIMIEPQATRKAQDFHWL TRSNM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

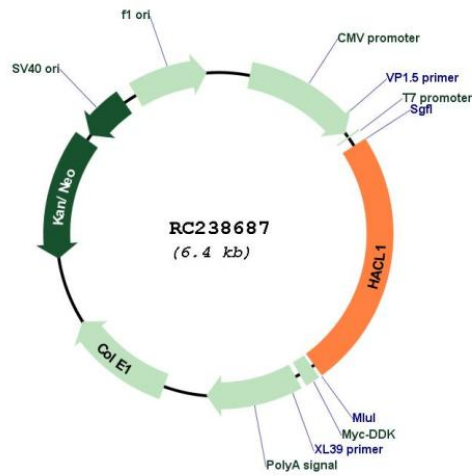
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001284415
ORF Size:	1554 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_001284415.2
RefSeq Size:	2107 bp
RefSeq ORF:	1557 bp
Locus ID:	26061
UniProt ID:	Q9UJ83
Cytogenetics:	3p25.1
MW:	57.1 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]