OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC238566

2 Hydroxy phytanoyl CoA lyase (HACL1) (NM_001284416) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	2 Hydroxy phytanoyl CoA lyase (HACL1) (NM_001284416) 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

View online »

ORF Nucleotide Sequence:

>RC238566 representing NM_001284416
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGGACAGTAACTTCGCAGAGCGCAGCGAGGAGCAGGTGTCTGGTGCTAAAGTCATCGCTCAGGCCC
TGAAAACGCAAGATGTGGAGTACATATTTGGCATCGTAGGCATCCCAGTGACCGAAATCGCCATTGCTGC
CCAGCAGCTAGGCATCAAGTACATCGGGATGAGGAATGAGCAAGCGGCTTGTTATGCTGCCTCCGCGATT
GGATATCTGACAAGCAGGCCAGGAGTCTGCCTTGTTGTTTCTGGCCCAGGTCTCATCCATGCCTTGGGCG
GTATGGCAAATGCAAACATGAACTGCTGGTACATGGAACGCTGCATGTCACCTCCTATTAGCATGGCAGA
AACCTCTGCTGTGTGCACGGCGGCTTCTGTTATTAGGAATGCCAAACAACCCCTTCTTATCATCGGGAAA
GGTGCTGCTTACGCTCATGCAGAAGAGAGTATCAAGAAATTGGTGGAGCAATATAAACTGCCATTTTTGC
CCACCCCTATGGGGAAGGGTGTTGTCCCTGACAACCATCCATACTGTGTAGGTGCAGCCAGATCCAGGGC
TTTGCAATTTGCTGATGTAATTGTGTTATTTGGTGCCAGACTAAATTGGATTTTACATTTTGGACTGCCT
CCAAGATATCAGCCAGATGTGAAGTTTATCCAGGTTGATATCTGTGCAGAAGAATTGGGGAATAATGTAA
AGCCCGCTGTTACTTTGCTAGGAAACATACATGCTGTCACTAAGCAGCTTTTAGAGGAACTTGATAAAAC
ACCATGGCAGTATCCTCCAGAGAGCAAGTGGTGGAAAACTCTGAGAGAAAAAATGAAGAGCAATGAAGCT
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GCTATTGCAGCTGCCGTGGTGGCTAAAGATAGAAGCCCTGGGCAATGGATCATCTGTGTGGAAGGAGACA
GTGCATTTGGGTTTTCTGGCATGGAGGTAGAAACCATCTGCAGGTACAACTTGCCAATCATACTGTTGGT
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GAGGCAAAGGGTATTTTGTACAAACACCAGAAGAACTCCAAAAATCCCTGAGGCAGAGCCTAGCAGACAC
AACTAAACCTTCTCTTATCAACATCATGATTGAGCCACAAGCCACACGGAAGGCCCAGGATTTTCATTGG
CTGACCCGCTCTAATATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

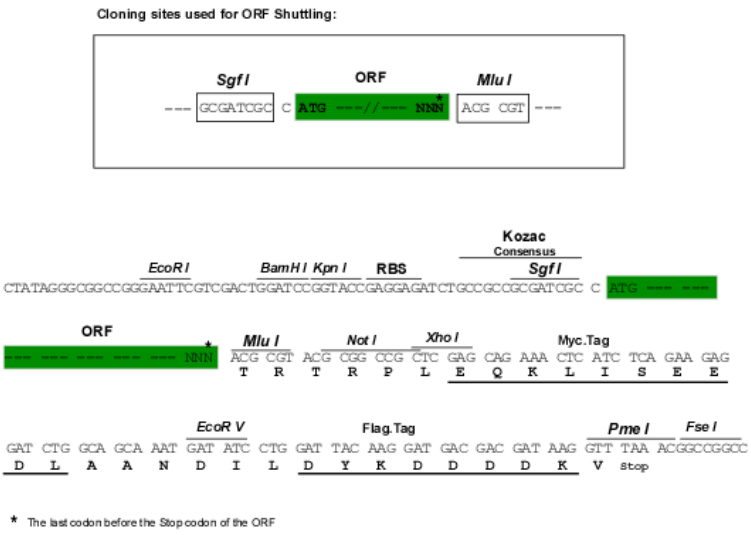
>RC238566 representing NM_001284416
Red=Cloning site Green=Tags(s)

MPDSNFAERSEEQVSGAKVIAQALKTQDVEYIFGIVGIPVTEIAIAAQQLGIKYIGMRNEQAACYAASAI
GYLTSRPGVCLVVSGPGLIHALGGMANANMNCWYMERCMSPPISMAETSAVCTAASVIRNAKQPLLIIGK
GAAYAHAEESIKKLVEQYKLPFLPTPMGKGVVPDNHPYCVGAARSRALQFADVIVLFGARLNWILHFGLP
PRYQPDVKFIQVDICAEELGNNVKPAVTLLGNIHAVTKQLLEELDKTPWQYPPESKWWKTLREKMKSNEA
ASKELASKKSLPMNYYTVFYHVQEQLPRDCFVVSEGANTMDIGRTVLQNYLPRHRLDAGTFGTMGVGLGF
AIAAAVVAKDRSPGQWIICVEGDSAFGFSGMEVETICRYNLPIILLVVNNNGIYQGFDTDTWKEMLKFQD
ATAVVPPMCLLPNSHYEQVMTAFGGKGYFVQTPEELQKSLRQSLADTTKPSLINIMIEPQATRKAQDFHW
LTRSNM

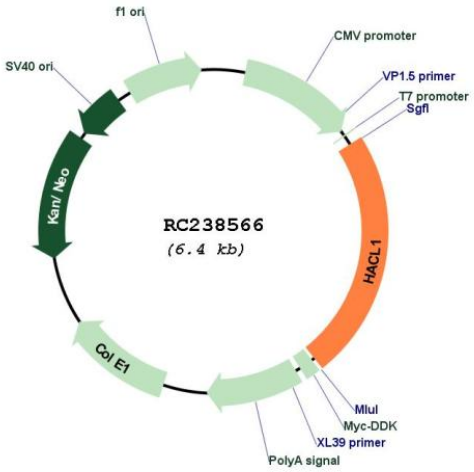
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001284416
ORF Size:	1488 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_001284416.2
RefSeq Size:	2041 bp
RefSeq ORF:	1491 bp
Locus ID:	26061
UniProt ID:	Q9UJ83
Cytogenetics:	3p25.1
MW:	55.2 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]