

Product datasheet for **RG238566**

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:	TurboGFP
Symbol:	HACL1
Synonyms:	2-HPCL; HPCL; HPCL2; PHYH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238566 representing NM_001284416.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCGGACAGTAACTTCGACAGCGCAGCGAGGAGCAGGTGTCTGGTGCTAAAGTCATCGCTCAGGCC
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CAAGTCATGACTGCATTTGGAGGCAAAGGATTTTTGTACAAACACCAGAAGAATCCAAAAATCCCTG
AGGCAGAGCCTAGCAGACACAATAAACCTTCTTATCAACATCATGATTGAGCCACAAGCCACACGG
AAGGCCAGGATTTTCATTGGCTGACCCGCTCTAATATG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
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Protein Sequence:

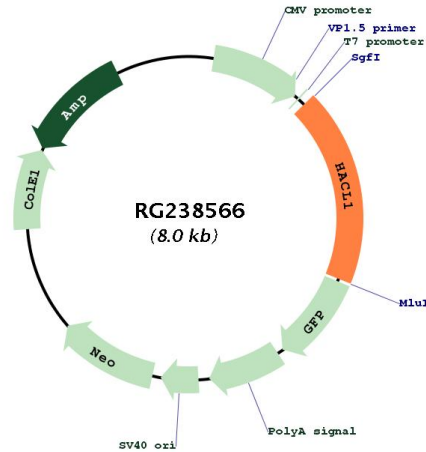
>Peptide sequence encoded by RG238566
 Blue=ORF Red=Cloning site Green=Tag(s)

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MPDSNFAERSEEQVSGAKVIAQALKTQDVEYIFGIVGIPVTEIAIAAQQLGIKYIGMRNEQAACYAASA
IGYLTSRPGVCLVVSGLIHALGGMANANMNCWYMERCSPPISMAETSAVCTAASVIRNAKQPLLI
GKGAAYAHAEESIKKLEQYKLPFLPTPMGKGVVDPNHPYCVGAARSRALQFADVIVLFGARLNWILHF
GLPPRYQPDVKFIQVDICAEELGNNVPAVTLGNIHAVTKQLLEELDKTPWQYPPESKWWKTLREKMK
SNEAASKELASKKSLPMNYTTFYHVQEQLPRDCFVSEGANTMDIGRTVLQNYLPRHRLDAGFTGTMG
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FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:

Sgfl-Mlul

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).

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]