

## Product datasheet for **RG238687**

### 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:	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:**

>RG238687 representing NM\_001284415.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCCGGACAGTAACTTCGACAGCGCAGCGAGGAGCAGGTGTCTGGTGCTAAAGTCATCGCTCAGGCC
CTGAAAACGCAAGATGTGGAGTACATATTTGGCATCGTAGGCATCCAGTGACCGAAATCGCCATTGCT
GCCAGCAGCTAGGCATCAAGTACATCGGGATGAGGAATGAGCAAGCGGCTTGTATGCTGCCTCCGCG
ATTGGATATCTGACAAGCAGGCCAGGAGCTGCCTTGTGTTTCTGGCCAGGTCTCATCCATGCCTTG
GGCGGTATGGCAAATGCAAAATGAACGCTGGCCCTTGCTTGTGATTGGTGGTTCTCTGAAAGAAAC
CAAGAAACAATGGGAGCTTCCAGGAGTTTCTCAGGCAGTGAGAAGCAGTATCTATGGTCGTCCAGGT
GCTTGCTATGTTGACATACCAGCAGATTTTGTGAACCTTCAGGTGAATGTGAATTCTATAAAGTACATG
GAACGTCGATGCACCTCCTATTAGCATGGCAGAAACCTCTGCTGTGTGCACGGCGGCTTCTGTTATT
AGGAATGCCAAACAACCCCTTCTTATCATCGGAAAGGTGCTGCTTACGCTCATGCAGAAGAGAGTATC
AAGAAATTGGTGGAGCAATATAAACTGCCATTTTGGCCACCCCTATGGGGAAGGGTGTGTCCTGAC
AACCATCCATACTGTGTAGGTGCAGCCAGATCCAGGGCTTGAATTTGCTGATGTAATTGTGTTATTT
GGTGCCAGACTAAATTGGATTTTACATTTTGGACTGCCTCCAAGATATACGCCAGATGTGAAGTTTATC
CAGGTTGATATCTGTGCAGAAGAATTGGGGAATAATGTAAGCCCGCTGTACTTTGCTAGGAAACATA
CATGCTGTCACTAAGCAGGAAGTCTTAAAAAATCCCTGCCTATGAATTATTACACAGTATTCTAC
CATGTTCAAGAACAACACTACCTAGAGACTGTTTCGTGGTAAAGTGAAGGAGCAAATACTATGGACATTGGA
CGGACTGTGCTTCAGAACTACCTTCTCGTCACAGGCTTGATGCTGGTACTTTTGGAAACAATGGGAGTT
GGTTTGGGATTTGCTATTGCAGCTGCCGTGGTGGCTAAAGATAGAAGCCCTGGGCAATGGATCATCTGT
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ATCATACTGTTGGTAGTAATAACAATGGAATTTACCAAGGTTTTGATACAGATACTTGGAAAGAATG
TTAAAATTTCAAGATGCTACTGCAGTGGTCCCTCCAATGTGTTTCTGCCAAATTCACATTATGAGCAA
GTCATGACTGCATTTGGAGGCAAAGGATTTTGTACAAACACCAGAAGAACTCCAAAAATCCCTGAGG
CAGAGCCTAGCAGACACAACCTTCTCTTATCAACATCATGATTGAGCCACAAGCCACACGGGAAG
GCCCAGGATTTTCATTGGCTGACCCGCTCTAATATG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238687  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MPDSNFAERSEEQVSGAKVIAQALKTQDVEYIFGIVGIPVTEIAIAAQQLGIKYIGMRNEQAACYAASA
IGYLTSRPGVCLVYSGPLIHALGGMANANMNCWPLLVIIGSSERNQETMGAFQEFPPQAVRSSIIYGRPG
ACYVDIPADFNLVQNVNSIKYMERCMSPPISMAETSAVCTAASVIRNAKQPLLIIGKGAAYAHAEESI
KKLVEQYKLPFLPTPMGKGVVDPNHPYCVGAARSRALQFADVIVLFGARLNWILHFLPPRYQPDVKFI
QVDICAEELGNNVKAVALLLGNIHAVTKQELASKKSLPMNYTTFYHVQEQLPRDCFVYSEGANTMDIG
RTVLQNYLPRHRLDAGTFGTMGVGLGFAIAAAVAKDRSPGQWIIICVEGDSAFGFSGMEVETICRYNLP
IILLVVNNGIYQGFDTDTWKEMLFQDATAVVPMLLPNSHYEQVMTAFGGKGYFVQTPEELQKSLR
QSLADTTKPSLINIMIEPQATKAQDFHWLTRSNM
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

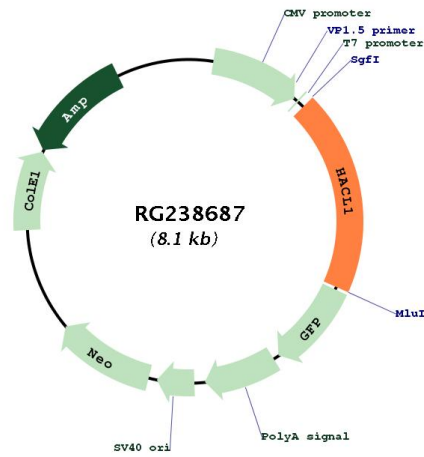
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_001284415
<b>ORF Size:</b>	1554 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001284415.2</a>
<b>RefSeq Size:</b>	2107 bp
<b>RefSeq ORF:</b>	1557 bp
<b>Locus ID:</b>	26061
<b>UniProt ID:</b>	<a href="#">Q9UJ83</a>
<b>Cytogenetics:</b>	3p25.1
<b>MW:</b>	57.1 kDa
<b>Gene Summary:</b>	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]