

Product datasheet for **RG238861**

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:	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:

>RG238861 representing NM_001284413.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCGGACAGTAACTTCGACAGCGCAGCGAGGAGCAGGTGTCTGGTGCTAAAGTCATCGCTCAGGCC
TGAAAAACGCAAGATGTGGAGTACATATTTGGCATCGTAGGCATCCCAGTGACCGAAATCGCCATTGCT
GCCAGCAGCTAGGCATCAAGTACATCGGGATGAGGAATGAGCAAGCGGCTTGTTATGCTGCCTCCGCG
ATTGGATATCTGACAAGCAGGCCCTTGCTTGTGATTGGTGGTTCCTCTGAAAGAAACCAAGAAACAATG
GGAGCTTCCAGGAGTTTCTCAGGTTGAAGCTTGTAGATTATATAACCAAGTTCTCTGCCGCCCAAGC
AGCATAGAAGCTATTCCTTTTGTATTGAAAAGGCAGTGAGAAGCAGTATCTATGGTCGTCCAGGTGCT
TGCTATGTTGACATACCAGCAGATTTTGTGAACCTTCAGGTGAATGTGAATCTATAAAGTACATGGAA
CGCTGCATGTCACCTCTATTAGCATGGCAGAAACCTCTGCTGTGTGCACGGCGGCTTCTGTTATTAGG
AATGCCAAACAACCCCTTCTTATCATCGGGAAAGGTGCTGCTTACGCTCATGCAGAAGAGAGTATCAAG
AAATTGGTGGAGCAATATAAACTGCCATTTTGGCCACCCTATGGGAAGGGTGTGTCCCTGACAAC
CATCCATACTGTGTAGGTGCAGCCAGATCCAGGGCTTTGCAATTTGCTGATGTAATTTGTTATTTGGT
GCCAGACTAAATTTGATTTTACATTTTGGACTGCCTCCAAGATATCAGCCAGATGTGAAGTTTATCCAG
GTTGATATCTGTGCAGAAGAATTTGGGAATAATGTAAGCCCGCTGTTACTTTGTAGGAAACATACAT
GCTGTCACTAAGCAGCTTTAGAGGAACCTGATAAAACACCATGGCAGTATCCTCCAGAGAGCAAGTGG
TGGAAACTCTGAGAGAAAAATGAAGAGCAATGAAGCTGCATCCAAGGAAGTACTTCTAAAAATCC
CTGCCTATGAATTATTACACAGTATTCTACCATGTTCAAGAACAACACTACCTAGAGACTGTTTCGTGGTA
AGTGAAGGAGCAAATACTATGGACATTGGACGGACTGTGCTTCAAGAACTACCTTCTCGTACAGGCTT
GATGCTGGTACTTTCGGAACAATGGGAGTTGGTTGGGATTTGCTATTGCAGCTGCCGTGGCTGATAAA
GATAGAAGCCCTGGCAATGGATCATCTGTGTGGAAGGAGACAGTGCATTTGGGTTTTCTGGCATGGAG
GTAGAAACCATCTGCAGGTACAACCTGCCAATCATACTGTTGGTAGTGAATAACAATGGAATTTACCAA
GGTTTTGATACAGATACTTGGAAAGAAATGTTAAAATTTCAAGATGCTACTGCAGTGGTCCCTCCAATG
TGTTTGTGCCAAATTCACATTATGAGCAAGTCATGACTGCATTTGGAGGCAAAGGGTATTTGTACAA
ACACCAGAAGAACTCCAAAAATCCCTGAGGCAGAGCCTAGCAGACACAACAAACCTTCTCTTATCAAC
ATCATGATTGAGCCACAAGCCACACGGAAGGCCAGGATTTTCATTGGCTGACCCGCTCTAATATG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG238861
 Blue=ORF Red=Cloning site Green=Tag(s)

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MPDSNFAERSEEQVSGAKVIAQALKTQDVEYIFGIVGIPVTEIAIAAQLGIKYIGMRNEQAACYAASA
IGYLSRPLLVIIGSSERNQETMGAFQEFQVEACRLYTKFSARPSSIEAIPFVIEKAVRSSIYGRPGA
CYVDIPADFVNLQVNVNSIKYMERCMSPPI SMAETSAVCTAASVIRNAKQPLLIIGKGAAYAHAEESIK
KLVEQYKLPFLPTPMGKGVVPDHPYCVGAARSRALQFADVIVLFGARLNWILHFGLPPRYQPDVKFIQ
VDICAEELGNNVKAAPTLLGNIHAVTKQLLEELDKTPWQYPPESKWWKTLREKMKSNAAASKELASKKS
LPMNYYTVFYHVQQLPRDCFVSEGANTMDIGRTVLQNYLPRHRLDAGTFGTMGVGLGFAIAAAVVAK
DRSPGQWIIICVEGDSAFGFSGMEVETICRYNLP IILLVNNNGIYQGFDTDTWKEMLKFQDATAVPPM
CLLPNSHYEQVMTAFGGKGYFVQTPEELQKSLRQSLADTTKPSL INIMIEPQATRAKQDFHWL TRSNM
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:

Sgfl-MluI

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).
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]