

Product datasheet for **RG236851**

HMGCLL1 (NM_001287746) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HMGCLL1 (NM_001287746) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HMGCLL1
Synonyms:	bA418P12.1; er-cHL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236851 representing NM_001287746. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGATCACACTGAAGTAATGAAAGGCATTCATCAATATCCAGGAGTTCGCTATCCTGTCTTACT
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GCAAAAAGGTGCTTCTGGGAATGTAGCCACTGAGGATTTGATATATGCTTAATGGCCTGGGGCTCAAT
ACAGGTGTGAATCTATACAAAGTATGGAAGCTGGTGGCTTTATTTGCAAAGCTGTGAATAAAACCA
AACTCTAAAGTAGCACAAGCCTCCTTCAATGCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236851
 Blue=ORF Red=Cloning site Green=Tag(s)

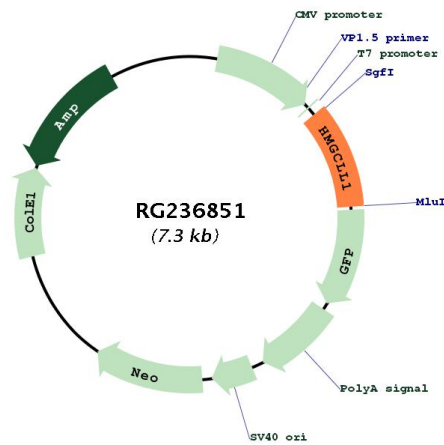
MADHTEVMKGIHQYPGVRYVPLTPNLQGFHHAVAAGATEISVFGAASESFSKKNINCSIEESMGKFEEV
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 TGVNLYKVMAGDFICKAVNKTTNSKVAQASFNA
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001287746

ORF Size:	723 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_001287746.1 , NP_001274675.1
RefSeq Size:	2577 bp
RefSeq ORF:	726 bp
Locus ID:	54511
UniProt ID:	Q8TB92
Cytogenetics:	6p12.1
MW:	25.9 kDa
Gene Summary:	Non-mitochondrial 3-hydroxymethyl-3-methylglutaryl-CoA lyase that catalyzes a cation-dependent cleavage of (S)-3-hydroxy-3-methylglutaryl-CoA into acetyl-CoA and acetoacetate, a key step in ketogenesis, the products of which support energy production in nonhepatic animal tissues.[UniProtKB/Swiss-Prot Function]