

## Product datasheet for **RG237355**

### HMGCLL1 (NM\_001287741) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HMGCLL1 (NM_001287741) 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:	>RG237355 representing NM_001287741. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGGGAATGTGCCATCCGCGGTGAAGCACTGCCTCAGCTACCAGCAGCTTCTCCGGGAGCATCTCTGG
ATCGGGGATTCAGTGGCAGGGGCGCTCGACCCCGCAGGAAACATCCCAGTTATCTGGACTCCCTGAG
TTTGTAAAATAGTAGAAGTTGGGCTAGGGATGGATTGCAGAATGAAAAGTTATAGTTCCTACAGAT
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TCCTTTAGCAAGAAGAATATTAAGTGTCCATTGAAGAAAGTATGGGAAAATTTGAGGAGGTTGTTAAG
TCTGCAAGACACATGAATATTCCAGCACGAGGGTATGTGTCTTGTGCTCTGGGCTGTCCATATGAAGGA
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CTAGGAGACACAATTGGAGTGGGAACTCCAGGAAGTATGAAAAGAATGTTGGAAAGTGTGATGAAAGAA
ATCCCACCAGGTGCTCTTGTCTGTTCACTGTGATGACACATACGGACAAGCCTTAGCAAATATCCTTACG
GCCCTTCAGATGGGAATTAATGTGGTGGACTCCGCAGTATCCGGATTAGGTGGCTGCCCTTATGCAAAA
GGTGCTTCTGGGAATGTAGCCACTGAGGATTTGATATATATGCTTAATGGCCTGGGGCTCAATACAGGT
GTGAATCTATACAAAGTATGGAAGCTGGTGACTTTATTTGCAAAGCTGTGAATAAAACCACAAACTCT
AAAGTAGCACAAGCCTCCTTCAATGCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237355  
 Blue=ORF Red=Cloning site Green=Tag(s)

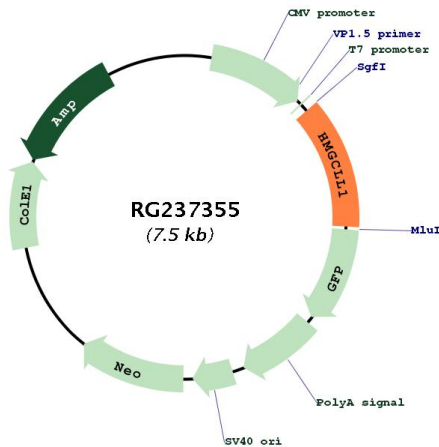
MGNVPSAVKHCLSYQQLREHLWIGDSVAGALDPAQETSLSGLPEFVKIVEVGPDRDLQNEKVIPTD  
 IKIEFINRLSQTGLSVIEVTSFVSSRWVPQVAAGATEISVFGAASESFSKKNINCSIEESMGKFEEVVK  
 SARHMNIPARGYVSCALGCPYECSITPQKVTEVSKRLYGMGCYEISLGDITGVGTPGSMKRMLESVMKE  
 IPPGALAVHCHDITYGQALANIL TALQMGINVVDSAVSGLGGCPYAKGASGNVATEDLIYMLNGLGLNTG  
 VNL YK VMEAGDF ICKAVNKTTNSKVAQASFNA  
**TRTRPLEM**ESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001287741

<b>ORF Size:</b>	924 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_001287741.1</a> , <a href="#">NP_001274670.1</a>
<b>RefSeq Size:</b>	2385 bp
<b>RefSeq ORF:</b>	927 bp
<b>Locus ID:</b>	54511
<b>UniProt ID:</b>	<a href="#">Q8TB92</a>
<b>Cytogenetics:</b>	6p12.1
<b>MW:</b>	33.2 kDa
<b>Gene Summary:</b>	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]