

Product datasheet for **RG206162**

HMGCLL1 (NM_001042406) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HMGCLL1 (NM_001042406) 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:	>RG206162 representing NM_001042406 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGAATGTGCCATCCGCGGTGAAGCACTGCCTCAGCTACCAGCAGCTTCTCCGGGAGCATCTCTGGA
 TCGGGGATTCAGTGGCAGGGGCGCTCGACCCGCGCAGGAAACATCCAGTTATCTGGACTCCCTGAGTT
 TGTTAAATAGTAGAAGTTGGGCCTAGGGATGGATTGCAGAAATGAAAAGTTATAGTTCTACAGATATA
 AAAATTGAATTTATCAATCGACTTCCCAAAGTGGCTGTCTGTAATAGAAGTACTAGCTTTGTGTCTT
 CCAGATGGGTACCACAGATGGCTGATCACACTGAAGTAATGAAAGGCATTCATCAATATCCAGGAGTTTCG
 CTATCCTGTCTTACTCCTAATCTTCAGGGTTTTACCATGCTGTTGCTGCTGGAGCTACTGAGATATCA
 GTTTTTGGAGCTGCATCTGAATCCTTTAGCAAGAAGAATATTAAGTGTTCATTGAAGAAAGTATGGGAA
 AATTTGAGGAGGTTGTTAAGTCTGCAAGACACATGAATATTCCAGCACGAGGGTATGTGTCTTGTGCTCT
 GGGCTGTCCATATGAAGGAAGTATTACACCGCAAAAAGTGACAGAAGTGTCTAAGAGATTGTACGGCATG
 GGTTGTTATGAGATCTCTTAGGAGACACAATTGGAGTGGAACTCCAGGAAGTATGAAAAGAATGTTGG
 AAAGTGTGATGAAAGAAATCCACCAAGGTGCTCTTGTCTGTTCACTGTCTGACACATACGGACAAGCCTT
 AGCAAAATATCCTTACGGCCCTTCAGATGGGAATTAATGTGGTGGACTCCGCAGTATCCGGATTAGGTGGC
 TGCCCTTATGCAAAAGGTGCTTCTGGGAATGTAGCCACTGAGGATTTGATATATGCTTAATGGCCTGG
 GGCTCAATACAGGTGTGAATCTATACAAAGTGATGGAAGCTGGTGACTTTATTTGCAAGCTGTGAATAA
 AACCACAACTCTAAAGTAGCACAAGCCTCCTCAATGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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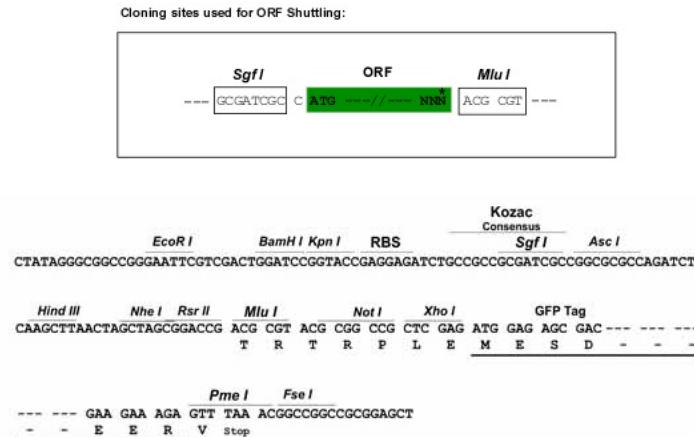
Protein Sequence: >RG206162 representing NM_001042406
 Red=Cloning site Green=Tags(s)

MGNVPSAVKHCLSYQQLREHLWIGDSVAGALDPAQETSQLSGLPEFVKIVEVGPRLQNEKVIVPTDI
 KIEFINRLSQTGLSVIEVTSFVSSRWVPQMADHTEVMKGIHQYPGVRYPLTPNLQGFHHAVAAGATEIS
 VFGAASEFSKKNINCSIEESMGKFEEVKSARHMNIPARGYVSCALGCPYEGSITPQKVTEVSKRLYGM
 GCYEISLGDITIGVTPGSMKRMLESVMKEIPPGALAVHCHDITYGQALANILTALQMGINNVDSAVSGLGG
 CPYAKGASGNVATEDLIYMLNGLGLNTGVNLYKMEAGDFICKAVNKTTNSKVAQASFNA

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001042406

ORF Size: 1020 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001042406.2](#)

RefSeq Size: 2481 bp

RefSeq ORF: 1023 bp

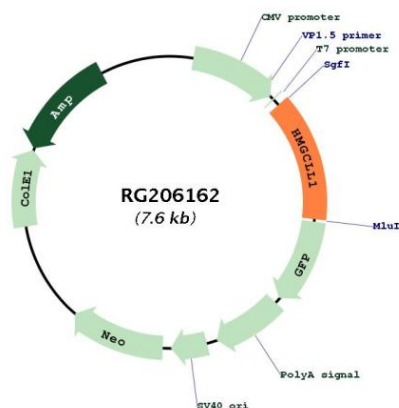
Locus ID: 54511

UniProt ID: [Q8TB92](#)

Cytogenetics: 6p12.1

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]

Product images:



Circular map for RG206162