

Product datasheet for SC311258

HMGCLL1 (NM_001042406) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HMGCLL1 (NM_001042406) Human Untagged Clone
Tag:	Tag Free
Symbol:	HMGCLL1
Synonyms:	bA418P12.1; er-cHL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311258 representing NM_001042406. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCTGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGGGAATGTGCCATCCGCGGTGAAGCACTGCCTCAGCTACCAGCAGCTTCTCCGGGAGCATCTCTGG
 ATCGGGGATTAGTGGCAGGGGCGCTCGACCCCGCGCAGGAAACATCCAGTTATCTGGACTCCCTGAG
 TTTGTTAAATAGTAGAAGTTGGGCTAGGGATGGATTGCAGAATGAAAAGGTTATAGTTCCTACAGAT
 ATAAAAATTGAATTTATCAATCGACTTTCCAACTGGCTTGTCTGTAATAGAAGTGACTAGCTTTGTG
 TCTTCAGATGGGTACCACAGATGGCTGATCACACTGAAGTAATGAAAGGCATTCATCAATATCCAGGA
 GTTCGCTATCCTGTCCTTACTCCTAATCTTCAGGGTTTTACCATGCTGTTGCTGCTGGAGCTACTGAG
 ATATCAGTTTTTTGGAGCTGCATCTGAATCCTTTAGCAAGAAGAATATTAAGTGTTCATTGAAGAAAGT
 ATGGGAAAATTTGAGGAGGTTGTTAAGTCTGCAAGACACATGAATATTCCAGCACGAGGGTATGTGTCT
 TGTGCTCTGGGCTGTCCATATGAAGGAAGTATTACACCGCAAAAAGTGACAGAAGTGCTAAGAGATTG
 TACGGCATGGGTTGTTATGAGATCTCTCTAGGAGACACAATTGGAGTGGGAACCTCAGGAAGTATGAAA
 AGAATGTTGGAAGTGTGATGAAAGAAATCCACCAAGTGCTCTTGCTGTTCACTGTCATGACACATAC
 GGACAAGCCTTAGCAATATCCTTACGGCCCTTCAGATGGGAATTAATGTGGTGGACTCCGAGTATCC
 GGATTAGTGGCTGCCCTTATGCAAAAGGTGCTTCTGGGAATGTAGCCACTGAGGATTTGATATATATG
 CTTAATGGCCTGGGCTCAATACAGGTGTGAATCTATACAAAGTGATGGAAGCTGGTGACTTTATTTGC
 AAAGCTGTGAATAAAACCAAACTCTAAAGTAGCACAAGCCTCCTTCAATGCT**TGA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001042406
Insert Size:	1023 bp


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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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.
RefSeq:	NM_001042406.1
RefSeq Size:	2481 bp
RefSeq ORF:	1023 bp
Locus ID:	54511
UniProt ID:	Q8TB92
Cytogenetics:	6p12.1
MW:	36.3 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] Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. It encodes isoform b, which is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.