

Product datasheet for **SC326823**

HMGCL (NM_001166059) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HMGCL (NM_001166059) Human Untagged Clone
Tag:	Tag Free
Symbol:	HMGCL
Synonyms:	HL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326823 representing NM_001166059. Blue=Insert sequence Red=Cloning site Green=Tag(s)

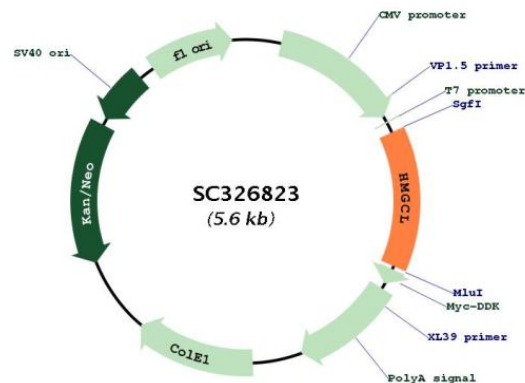
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGCAATGAGGAAGGCGCTTCCGCGGCGACTGGTGGGCTTGGCGTCCCTCCGGGCTGTGAGCACC
TCATCTATGGGCACTTTACCAAAGCGGGTAAAAATTGTGGAAGTTGGTCCCGAGATGGACTACAAAAT
GAAAAGAATATCGTATCTACTCCAGTAAAAATCAAGCTGATAGACATGCTTTCTGAAGCAGGACTCTCT
GTTATAGAAACCACCAGCTTTGTGTCTCCTAAGTGGGTTCCCGAGATGGGTGACCACACTGAAGTCTTG
AAGGGCATTGAGAAGTTTCTGGCATCACTACCCAGTCTGACCCCAAATTTGAAAGGCTTCGAGGCA
GCGGTACCAAGAAGTTCTACTCAATGGGCTGCTACGAGATCTCCCTGGGGGACACCATTGGTGTGGGC
ACCCAGGGATCATGAAAGACATGCTATCTGCTGTGATGCAGGAAGTGCCTCTGGCTGCCCTGGCTGTC
CACTGCCATGACACCTATGGTCAAGCCCTGGCCAACACCTTGATGGCCCTGCAGATGGGAGTGAGTGTC
GTGGACTCTTCTGTGGCAGGACTTGGAGGCTGTCCCTACGCACAGGGGGCATCAGGAAACTTGGCCACA
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GCTGGAACCTTTATCTGTCAAGCCCTGAACAGAAAAACTAGCTCCAAAGTGGCTCAGGCTACCTGTAAA
CTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001166059

Insert Size: 765 bp

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_001166059.1](#)

RefSeq Size: 1412 bp

RefSeq ORF:	765 bp
Locus ID:	3155
UniProt ID:	P35914
Cytogenetics:	1p36.11
Protein Families:	Druggable Genome
Protein Pathways:	Butanoate metabolism, Metabolic pathways, Synthesis and degradation of ketone bodies, Valine, leucine and isoleucine degradation
MW:	26.9 kDa
Gene Summary:	<p>The protein encoded by this gene belongs to the HMG-CoA lyase family. It is a mitochondrial enzyme that catalyzes the final step of leucine degradation and plays a key role in ketone body formation. Mutations in this gene are associated with HMG-CoA lyase deficiency. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]</p> <p>Transcript Variant: This variant is missing two consecutive in-frame coding exons compared to variant 1, resulting in a shorter isoform (2) lacking an internal protein segment compared to isoform 1.</p>