

## Product datasheet for **SC120045**

### HMGCL (NM\_000191) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HMGCL (NM_000191) Human Untagged Clone
Tag:	Tag Free
Symbol:	HMGCL
Synonyms:	HL
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120045 sequence for NM_000191 edited (data generated by NextGen Sequencing)

```
ATGGCAGCAATGAGGAAGCGCTTCCGCGGCGACTGGTGGGCTTGCGCTCCCTCCGGGCT
GTCAGCACCTCATCTATGGGCACCTTACCAAAGCGGGTAAAAATTGTGGAAGTTGGTCCC
CGAGATGGACTACAAAATGAAAAGAATATCGTATCTACTCCAGTAAAAATCAAGCTGATA
GACATGCTTTCTGAAGCAGGACTCTCTGTTATAGAAACCACCAGCTTTGTGTCTCCTAAG
TGGGTTCCCCAGATGGGTGACCACACTGAAGTCTTGAAGGGCATTGAGAAGTTTCTGCG
ATCAACTACCCAGTCCTGACCCCAAATTTGAAAGGCTTCGAGGCAGCGGTTGCTGCTGGA
GCCAAGGAAGTAGTCATCTTTGGAGCTGCCTCAGAGCTTTCACCAAGAAGAACAATCAAT
TGTTCCATAGAGGAGAGTTTTTCAGAGGTTTGACGCAATCCTGAAGGCAGCGCAGTCAGCC
AATATTTCTGTGCGGGGGTACGTCTCCTGTGCTCTTGGCTGCCCTTATGAAGGGAAGATC
TCCCCAGCTAAAGTAGCTGAGGTCACCAAGAAGTTCTACTCAATGGGCTGCTACGAGATC
TCCTGGGGGACACCATTGGTGTGGGCACCCAGGGATCATGAAAGACATGCTGTCTGCT
GTCATGCAGGAAGTGCCTCTGGCTGCCCTGGCTGTCCACTGCCATGACACCTATGGTCAA
GCCCTGGCCAACACCTTGATGGCCCTGCAGATGGGAGTGAGTGTGCTGGACTCTTCTGTG
GCAGGACTTGGAGGCTGTCCCTACGCACAGGGGCATCAGGAACTTGGCCACAGAAGAC
CTGGTCTACATGCTAGAGGGCTTGGGCATTACACGGGTGTGAATCTCCAGAAGCTTCTG
GAAGCTGGAACCTTTATCTGTCAAGCCCTGAACAGAAAAACTAGCTCCAAAGTGGCTCAG
GCTACCTGTAAACTCTGA
```

Clone variation with respect to NM\_000191.2  
654 a=>g



[View online »](#)

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000191 unedited</p> <pre> NNNNNGGTCGACATTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGGTGG CAGCAATGAGGAAGGCGCTTCCGCGGCGACTGGTGGGCTTGGCGTCCCTCCGGGTGTCA GCACCTCATCTATGGGCACTTTACCAAAGCGGGTGAAAATTGTGGAAGTTGGTCCCCGAG ATGGACTACAAAATGAAAAGAATATCGTATCTACTCCAGTGAAAATCAAGCTGATAGACA TGCTTTCTGAAGCAGGACTCTCTGTTATAGAAACCACCAGCTTTGTGTCTCCTAAGTGGG TTCCCCAGATGGGTGACCACACTGAAGTCTTGAAGGGCATTGAGAAGTTTCTGGCATCA ACTACCCAGTCCTGACCCCAAATTTGAAAGGCTTCGAGGCAGCGGTTGCTGCTGGAGCCA AGGAAGTAGTCATCTTTGGAGCTGCCTCAGAGCTCTTACCAAAGAAGAACATCAATTGTT CCATAGAGGAGAGTTTTTTCAGAGTTTTGACGCAATCCTGAAGGCAGCGCAGTCAGCCAATA TTTCTGTGCGGGGTACGTCTCCTGTGCTCTTGGCTGCCCTTATGAAGGGAAGATCTCCC CAGCTAAAGTAGCTGAGGTCACCAAGAAGTTCTACTCAATGGGCTGTACGAGATCTCCC TGNGGGACACCATTGGTGTGGGCACCCAGGGATCATGANAGACATGCTGTCTGTGTCA TGCANGAAGTGCCTCTGGCTGNCCTGGCTGTCCACTGCCATGACACCTATGGTCAAGCCC CTGGCCAACACCTTGATGGCCCTGCAAATGGGAGTGAGTGTCTGGACTTCTGTGGCA GGACTTGGAGGCTGTCCCTACCACAGGGGCAT </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_000191 unedited</p> <pre> CACTGGTACCGCGCCGCATTCTANGTCGAGTTTATTTCTTTTTTTTTTATGATGTGCCAT TCAACCTTTAATTACATAAGCTGTTTTCAAAAATCACATTCAGCGTGGAGATTTTCCAGA GATGCTGGAGTTGGCAGATGGCCACCACGTAGCTCTCCACTTTCCACAAATGGCCTCTGC CAGCTTGGGAAGAACCTCCATGACCTGTGCTCTGTTAAGTCAGAGAGCAAGGGCCCCACG GCCATGGCAGGGTGGAGCCGTGTAGAGGGTGGCCAGGTGGCCAGCTCGCGGATTCCATCC AGAGAGGAGACTCAAGGATCATGCTAAGTAGGGAACGGGGTTCCACACGTCCTCAGGCA TTCAACTCCTGGGCCAGGGTCCGTAACAAAGGGAGACTTCAGCCCTCAAAGCCTCTCACT CCTCAGGTCTGGGCAGGAGGTCCTTCTGCCAAGCAGCTCCTCCTGCCCTTCGCTGCTTT CTGCCAGGAGAGACCTCTGTGTAGAGCTGGCTATGAGGTACCTGCACCATTTAACCTATT CTCATTTCCATGTCCCATCCATGAATCATCTGTGTGTGCCCTATTTCCACATCATCCC CAGGGCTTCAGGTGGGCAAGGGGCTCAGAGTTTACAGGTAGCCTGAGCCACTTTGGAGCT AGTTTTTCTGTTACAGGGCTTGACAGATAAAGTTTCCAGCTTCCAGAAGCTTCTGGAGATT CACACCCGTGTGAATGCCAAGCCCTCTAGCATGTAGACCAGGTCTTCTGTGGCCAGTTT TCTGATGCCNCTGTGCGTANGGACAGCCNCCAGTCTGCCCCAGAAGAGTCACGACAC TCACTCCCATCTGCNAGCCCATCAGGTGGTTGCCAGGGCTTGACCTTAGTGTGATGGCAG TGNAAGNCCGGGCACCCGAAGCACTCCCTGCTGAACGCNAACGCTGTT </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000191
<b>Insert Size:</b>	1750 bp
<b>OTI Disclaimer:</b>	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).
<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>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000191.2</a> , <a href="#">NP_000182.2</a>
<b>RefSeq Size:</b>	1617 bp
<b>RefSeq ORF:</b>	978 bp
<b>Locus ID:</b>	3155
<b>UniProt ID:</b>	<a href="#">P35914</a>
<b>Cytogenetics:</b>	1p36.11
<b>Domains:</b>	HMGL-like
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Butanoate metabolism, Metabolic pathways, Synthesis and degradation of ketone bodies, Valine, leucine and isoleucine degradation
<b>Gene Summary:</b>	<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 (1) encodes the longer isoform (1).</p>