

Product datasheet for **RG228188**

HMGCL (NM_001166059) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HMGCL (NM_001166059) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HMGCL
Synonyms:	HL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228188 representing NM_001166059 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCAATGAGGAAGGCGCTTCCGCGGCGACTGGTGGGCTTGGCGTCCCTCCGGGCTGTCAGCACCT
CATCTATGGGCACTTTACCAAAGCGGGTAAAAATTGTGGAAGTTGGTCCCCGAGATGGACTACAAAATGA
AAAGAATATCGTATCTACTCCAGTGAAAATCAAGCTGATAGACATGCTTTCTGAAGCAGGACTCTGTGT
ATAGAAACCACCAGCTTTGTGTCTCCTAAGTGGGTCCCCAGATGGGTGACCACACTGAAGTCTTGAAGG
GCATTCAGAAGTTTCTGGCATCACTACCCAGTCTGACCCCAAATTTGAAAGGCTTCGAGGCAGCGGT
CACCAAGAAGTTTACTCAATGGGCTGCTACGAGATCTCCTGGGGGACACCATTGGTGTGGGCACCCCA
GGGATCATGAAAGACATGCTATCTGCTGTGCATGCAGGAAGTGCCTCTGGCTGCCCTGGCTGTCCACTGCC
ATGACACCTATGGTCAAGCCCTGGCCAACACCTTGATGGCCCTGCAGATGGGAGTGAGTGTGCTGGACTC
TTCTGTGGCAGGACTTGGAGGCTGTCCCTACGCACAGGGGATCAGGAAACTTGGCCACAGAAGACCTG
GTCTACATGCTAGAGGGCTTGGGCATTCACACGGGTGTGAATCTCCAGAAGCTTCTGGAAGCTGAAACT
TTATCTGTCAAGCCCTGAACAGAAAACTAGCTCAAAGTGGCTCAGGCTACCTGTAACCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228188 representing NM_001166059
Red=Cloning site Green=Tags(s)

MAAMRKALPRRLVGLASLRAVSTSSMGTLPKRVKIVEVGPDRDGLQNEKNIVSTPVKIKLIDMLSEAGLSV
 IETTSFVSPKWPQMGDHTEVLKGIQKFPGINYPVLTPLNKGFEAAVTKKFYSMGCYEISLGDITIGVGP
 GIMKDMLSAVMQEVPLAALAVHCHDITYQALANTLMALQMGVSVVDSSVAGLGGCPYAQGASGNLATEDL
 VYMLEGLGIHTGVNLQKLLLEAGNFICQALNRKTSKVAQATCKL

TRTRPLE - GFP Tag - V

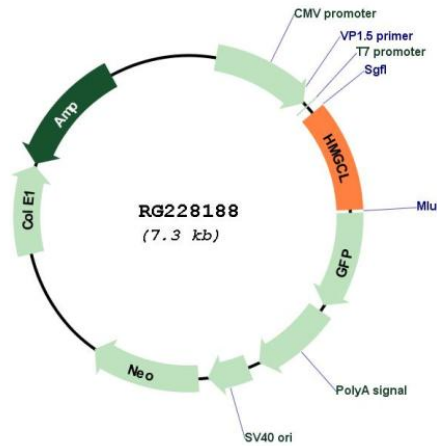
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001166059

ORF Size: 762 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:	<ol style="list-style-type: none">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 , NP_001159531.1
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
Gene Summary:	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]