

Product datasheet for MC202939

Hmgcl (NM_008254) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hmgcl (NM_008254) Mouse Untagged Clone
Tag: Tag Free
Symbol: Hmgcl
Synonyms: AW476067; HL
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC025440 sequence for NM_008254
 CCACGCGTCCGGAAGATGGCGTCAGTGAGGAAGGCTTCCCGCGGAGGCTGGTGGGCTTGACGTCCCTCC
 GGGCTGTGAGCACCTCCATGGGCACCTTCCCAAAGCAGGTGAAGATCGTGGAAGTCGGTCCCGAGA
 TGGGCTGCAGAATGAAAAGAGTATTGTACCCACCCAGTGAAGATCAGGCTGATCGACATGCTTCCGAA
 GCAGGGCTCCCCGTGATCGAGGCCACCGCTTTGTTTCTCCCAAGTGGGTGCCACAGATGGCTGACCACT
 CTGACGCTTTGAAGGGCATTGAGAAGTTTCCCGCATCAACTACCCAGTCTGACTCCAAACATGAAAGG
 CTTTGAGGAAGCGGTAGCTGCGGGTGCCAAGGAAGTGAGCGTCTTCGGTGTGTCTGAGCTCTTACC
 CGGAAGAACGCGAACTGCTCTATAGAGGAGAGTTTCCAGCGCTTGTGGAGTCAATGCAGGCGCCAGG
 CCGCCAGCATCTCTGTGAGAGGGTATGTCTCTGTGCCCTCGGATGCCCTACGAGGGGAAGGTCTCCCC
 GGCTAAAGTTGCTGAGGTTGCCAAGAAGTTGACTCGATGGGCTGCTATGAGATCTCCCTGGGGACACC
 ATCGGCGTAGGTACCCAGGACTCATGAAAGACATGCTGACTGCTGTCATGCATGAAGTGCCTGTGACAG
 CATTGGCTGTCCACTGCCATGATACCTATGGTCAAGCTCTGGCCAACACCTTGGTGGCCCTGCAGATGGG
 TGTGAGTGTGTGGACTCCTCTGTGGCAGGACTTGGAGGCTGTCCCTATGCAAAAGGGGCATCAGGGAAC
 TTGGCTACTGAGGACCTGGTCTACATGCTGAATGGCTTAGGGATTACACGGGTGTGAACCTCCAGAAAC
 TTCTAGAAGCTGGGGACTTCATCTGTCAAGCCCTAACAGAAAACTAGTTCCAAAGTGGCACAGGCCAC
 CTGCAAGCTCTGAGACCTCGTTCGCCTGAACCAGAACGGAGGGAATTGGGTGTATAAATGATTCTGG
 ATGAAGAGATGGAATGAGAGCAAATGAGCCGGCATCACAGAGTCCCTGTCCCTGATGATAAGGGCTAGA
 GCTGCCTGGCCTGGGCCAGCTCCCCAGAGCTGTGCCTAAGCACTTGCTTGGGATGGCCCTGGGTGAGTCT
 GCCTGCCAACAGAGCTGATGTCCACCGCCGAGGCGCTTTGTTCTACCTCTGAGGACAGAGAGCAGTTTC
 CCTTATGCCAGCAGAGCATTGTGCTGGAATGGTGGGGTTGATCTGCATCTGTGGTCATCTGCCAACGAA
 ATCTCCACTCTGTGTGATTTTTTTGAAAACAGCTTATGTAATTAAGGTTTAATTTTTCTAATATAAAA AAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_008254
Insert Size: 978 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).
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:	BC025440 , AAH25440
RefSeq Size:	1412 bp
RefSeq ORF:	978 bp
Locus ID:	15356
UniProt ID:	P38060
Cytogenetics:	4 68.14 cM
Gene Summary:	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. Terminal step in leucine catabolism. Ketone bodies (beta-hydroxybutyrate, acetoacetate and acetone) are essential as an alternative source of energy to glucose, as lipid precursors and as regulators of metabolism.[UniProtKB/Swiss-Prot Function]