

Product datasheet for MC201548

Hmgcll1 (NM_173731) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hmgcll1 (NM_173731) Mouse Untagged Clone
Tag: Tag Free
Symbol: Hmgcll1
Synonyms: BC037381
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC037381 sequence for NM_173731
 CGGACCCCGGGCACCCCGGGACGCGCTCCCGGCTCTCACCCGGCTCTCGGCTCCGGCCGTGGGATCCAG
 CACCGCCACGGCACCTAGGCTGCTGCTATGGGGAATCTACCATCTGCTGCGAAGCACTGCCTCAACTAC
 CAGCAGCTTCTCCGCGAACATCTCTGGAGCGGAGACTCAGTGGCAGGGGCGCTGGATGCGGCGCAGGAAG
 CATCTCAGTTACCTGGACTCCCTGAATATGTGAAAATAGTCGAAGTTGGACCAAGGGATGGATTGCAGAA
 TGA AAAAGTTATAGTTCCACAGACATAAAAAATTGAACTCATCAATCAACTTTCCAAAAGTGGCTTGCT
 GTAATAGAAGTAACCAAGCTTTGTGCTTCCAGATGGGTACCACAGATGGCTGACCATGCTGAAGTATGC
 GAGGCATTCGTAGTATCCAGGAGTTCGCTATCCTGTCTTACACCTAATCTTCAGGGTTTTAGCATGC
 TGTTGCTGCTGGAGCCACGGAGATAGCAGTTTTGGTGTGCTTCCAGAAATCTTTAGCAAGAAGAATATT
 AACTGCTCCATTGAAGAAAGTATGGGAAGTTTTAGGAGGTCATCAGCTCTGCAAGACACATGGACATCC
 CAGTGGCAGGGTACGTGTCTGCGCCCTGGGCTGCCCATATGAAGGAAGCATCACACCACAGAAAGTCAC
 AGAAGTTTCAAAGAGATTGTATGGTATGGGCTGCTATGAAATATCTTTGGGCGACACGATTGGAGTTGGT
 ACTCCAGGCAGCATGAAGATGATGTTGGAAGTGTGATGAAAGAAATCCCTCCAGGGGCTCTTGCTGTTT
 ATTGCCATGACACATATGGACAAGCCCTCGCAAATATCCTAACAGCTCTTCAGATGGGGATTAATGTGGT
 GGATTCTGCTGTATCCGGATTAGGTGGCTGCCCTTATGCAAAAAGGTGCTTCTGGGAATGTAGCCACTGAG
 GATTTGATATATGCTCAATGGCATGGGGCTCAATACAGGTGTGGATCTCTACAAGGTGATGGAAGCTG
 GTGAGTTTATTTGCAAGGCAGTGAACAAAACATAAACTCTAAAGTCGCACAAGCCTCCTCAACGCTCG
 CCTTGAATGAGTTTGTGATTTAAGAAAAGAGCAGAGCCCTCCAGCCCTAGTTCATCACAGTGTATTAGT
 GCCAACACATTCTGAAGTGAAGTTAATAAAAAGAGCTGGGAGAGGAGCTATGCTTGGATAGACCGTGAA
 GTGGATGGGCAAGACAAGCGCTGTGTTCAACTGCAAGCTGAGAATGAGCCCACTGCTTGCCTTCTGG
 TGGTGGACAAAGCCTGCTCGTTTTGCTCTTACAGAAATCATTATATTTTTAGCTTAGTAGAACTGAAAAT
 TGACTTCAGATTTCTCTAAGTATCAAGTGTGTTAATGCCTCCTCAAGCCACCTTACCGCAGGGTACA
 CATTGTTAGTGGTTATGAGCCTCGACACAATGCAGAGTGTGGCCCTGAAGTTGTGTTTTCCCCCCCC
 CCTCTGGATCCTAACTCTCCATTTGCCAAGTTTGTAAAGTTGTGGACCAAGGCCAAAAGTTTCATCCGAC
 CCAACATATTTTTAGCAATAGAAGTATTTATTTTCGAGTGGGCTAACATCTGTAACTATTTCAATGA
 CTTTATTGTGCTCAAGATGCTGTGGTCAATGGCAAGAAGCCACATCCTGAAAACACACCATACTCCCA
 TGTTTGTCTGTGCATCCAGTTTGTGTTTTACATTTAATCAATTGTAGAAAAAAATCCACAATGTT



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ATTTAAATATGGAGAACTCTATGGTATGGTTTTATTCTGGTGTCTAAGGGACAGTAACAATAGTAGAC
 TGATATAGACACCCTAGTCTATTTCCATAATATCTAGTTTACTTTTAAATGGCCCAAGGAAATACTACTG
 TGATTTTAAAGAAATGTTAATAATTTTTAACTGATGAAAAGTCTGTTTTTCATTGACTTATTTTGTATT
 CTATATCTGTTTGTTTTTATTTGACTGTAGAATATTTATTTTAAAGTTGAATGACAGAAATATTATCTCC
 AGTGCCAGAAAGCATTGCCAGGGATAATGAAAATTAATACATTAAGATCAAGGCCTGGGATATGGCTCA
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 AAAACCATTGAAATGAAAATATTACAGAAAATAAAAGGGATATTGATTAGAAGCAAAAATATCATTAAAGG
 TATATAGTAGGAAAAATTGGAACAGAAACATACGAGTTGACAAAGAAACCTAAATTTCCATGGAAGACTC
 CAACTTGTGAGCTTGTAACTTTCTTCTGTAGGTTTTGTCCAGCATCCTTTCTCTAGAGTACTGAAA
 GCAGTTCTGTGCTGGGGGCTCAGGTTGGAATATGGATGACACAGAGGCAGCAAAGTGCATCCAAGTGT
 GGATCTGCCTTAGTCTAGCTCCCTGCTCATCTCTTTTCCAGACTAGGGCACTGACAGGCGGCAGTGGT
 GCGGCGGTGGCAAAGTGCATCTTCTTCTTCTGAGGAAGTTGATTTTCCCTCTCAGAGACCTG
 GAGTGCTCAGTTTGGAGATTTTGTGAGAACATGTGTTTATGCAGACTACTTGAAAAACAGTGACCAGC
 ATTTTTGTCTTGAAGTCAAGCTCAAAGTCTTTCAAAGACAGTGCAAATAGAAAACCTCAGAAATAGTGT
 ATACAGTTATATGGTGCCTACCTCAGTGTACCAGTTGACTTTTCATGACCACCTTGATATTATCTAATTGC
 ACTTGACACAGACTAGTTTATATGTTCTTATCTCTCCCTTTTCTCTCCCTATACTGTCTTAATTTCTTA
 GGAAGAGTATTCTCAACTTCTTTAGCTATCCAGGAAACCTTGCAAGTGCATGACCCATTGGAAAA
 ACAAACCAAAAAGCTCACCCACATGATTTTGTGAAATGTGAATGAAAATAATCTTTCTCACATCTCTCTTA
 AGAATGACAAGGCAAGTATGACTTTTGTGAAATGTGAATGAAAATAATCTTTCTCACATCTCTCTTA
 TTATTGCTAGGACTGTTGGTAAGTATGATCACTCTACCTAGGATGTGTAAGAACCTGTGTTTGTATCCC
 TCAGCCCAACAAACCAAGCAGAAATAATTTTGTCTTTTGAATAAAGAAATTTTAAATCTGATGTT
 CATGAACCTTAGAGCAAAAAATTTAATCTGGTAACTTTCTAGTAAATTTGATGTTCTTTTACATTTTAA
 GCATTTTGTTTACCATAAAATTTAATAAAGACTTTTTTAGCTGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_173731
- Insert Size:** 1032 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).
- 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:** [BC037381](#), [AAH37381](#)
- RefSeq Size:** 3651 bp
- RefSeq ORF:** 1032 bp

Locus ID: 208982

UniProt ID: [Q8JZS7](#)

Cytogenetics: 9 D

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]