

Product datasheet for **MC200035**

Mlycd (NM_019966) Mouse Untagged Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Mlycd (NM_019966) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Mlycd |
| Synonyms: | A1324784; Mcd |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >BC004764 sequence for NM_019966
 GCAGAGGCCCGCTCTCCAGTGGCGTCTCCCGCTAGCAGCTGTCGCGGAGCTGTCATGCGAGGCCCTCGGGC
 CAGGCTTGAGGGCTCGGCGCCTGCTCCCACTGCGGTCCCCGCCGCGGCCTCCGGGGCCCCGGGACGTG
 GCTGTGCGGGGGCTCGCGGCCAGCGCCATGGACGAGCTGCTGCGGGAGCCGTGCCCGGACGCCGGCC
 TACGAGCTGCGCGAGAAGACGCCGGCGCCCGCCAGGGCCAGTGCGCCGACTTCGTGAGCTTCTACGGCG
 GCCTGGCCGAGGGCTCCAGCGCGCCGAGCTGCTCGGCCGCTGGCTCAGGGCTTCGGCGTGGACCACGG
 CCAGGTGGCCGAGCAGAGCGCCGGGTGCTGCAGCTGCGCCAGCAGGCGCGGAGGCGCCGCTGCTGCTG
 CAGGCGGAGGACCGTTGCGCTACGCGCTCGTGCCGCGGTATCGCGGCCTTCCATCACATCAGCAAGC
 TGGACGCGCGCTGCGCTTCTTGGTGCAGCTGCGGGCCGATCTGCTGGAGGCGCAGGCCCTCAAGCTGGT
 GGAGGGGCCGACGTCCGGGAAATGAACGGAGTCTCAAAGCATGCTGTCTGAGTGGTTCTCTCCGGC
 TTCCTGAACCTGGAGCGGTACCTGGCACTCACCTGTGAGGACTTTCAGAAGATCAGCGAGTGTGAGG
 CTGTGCACCTGTGAAAACTGGATGGACATGAAGCGCGTGTGGGGCCCTACCGGAGATGTTACTTCTT
 CTCCCACTGCTCCACCCCGGGAAACCCCTGGTGGTTCTGCATGTGGCTCTGACTGGTGACATTTCAAAC
 AACATCCAGGGCATTGTGAAGGAGTGCCCTCCGACTGAAACCGAGGAGAGGAACAGGATCGCCGCTGCCA
 TCTTCTACTCCATCAGCCTGACCAGCAGGGCCTGCAGGGGTGGAGCTCGGGACCTTCCATAAAGAG
 AGTGGTCAAGGAGCTGCAGAAGGAATTTCTCAGCTGGGGCCTTTTCAAGCCTGTGCGCTATCCCTGGA
 TTCACCAAGTGGCTGCTGGGCCTCTGAATGTGCAGGGGAAGGAGCATGGGAGGAACGAACATTTACAG
 ACTCAGAGTGCCAAGAAATCTCAGCGGTTACCGGCAACCCCTGTTACGAGAGCCTCAAGGGGTTCTGAG
 CAGTGGTGTGAGTGGTGAAGTCAAGAGCTGACGAGGCGCTGCAGGGGCCACTAATGAGGCTGTGTGCC
 TGGTACCTGTACGGTGAAGACCCGAGGCTACGCCCTCAACCCAGTGGCCAACCTCCATCTGCAGAATG
 GGGCTGTGATGTGGCGTATCAACTGGATGGCTGACAGCAGCCTCAAAGGCCTCACCAGCTCATGCGGCCT
 CATGGTCAACTACCGCTACTACCTGGAGGAGACAGGCCCAACAGTATCTCTACCTGGGCTCCAAGAAC
 ATCAAAGCTTCCGAGCAGATCCTCAGCCTGGTAGCCAGTTCAGAAACAACAGCAAACCTAGGGACAGC
 CTTCCCAAAGCTTGGGCCCTTCTTAGAAAGGAGGCTGTGTTCTGATGGGCCAGGCTTACTTACCACAGA
 ATCCTTTTCAGGGAGGCCACAGCGGTGCTGCCTCTGACCTCAGCAGGCACTCAGGAGGCCACACCTTGG
 CTGCACTGTGGTGGCCACTACTGCTAGGAGCGGTGGCGGACTGGGTGCTGGGGTTCGGGGATCCC
 ACTGTGCTGCTCCCCACAGCCTGTGCCTTCAAGAAAGCTTACAGATGCCACCACAGGCCACCCAGGACA
 CAGCCCAGAGCACAGACCTTTGGAGTATGAAGAGCTGACAGTCAATGTTCTCTATTTGGGAGAGGACT
 AAGATCTGTACTGTGGCTAATACCGCAGCTTAAAGCTCAGACTAGAGAGAGTTTGTGCCGTGCACAGGGT
 GTGTTTGGCACCTCAGGGATGCTGCTGCTGCTTGAGGCCAGAGTTGGCTTACAGGGTTAAATGAGATCC
 CAGTTCATAATGAACTGAACGGTAAAGAACAGATTTGTTCTGTAAGCATTAAACATGATTGTTCACTGTA AAAAAAAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_019966
- Insert Size:** 1479 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: [BC004764](#), [AAH04764](#)

RefSeq Size: 2116 bp

RefSeq ORF: 1479 bp

Locus ID: 56690

UniProt ID: [Q99J39](#)

Cytogenetics: 8 E1

Gene Summary: Catalyzes the conversion of malonyl-CoA to acetyl-CoA. In the fatty acid biosynthesis MCD selectively removes malonyl-CoA and thus assures that methyl-malonyl-CoA is the only chain elongating substrate for fatty acid synthase and that fatty acids with multiple methyl side chains are produced. In peroxisomes it may be involved in degrading intraperoxisomal malonyl-CoA, which is generated by the peroxisomal beta-oxidation of odd chain-length dicarboxylic fatty acids. Plays a role in the metabolic balance between glucose and lipid oxidation in muscle independent of alterations in insulin signaling. Plays a role in controlling the extent of ischemic injury by promoting glucose oxidation.[UniProtKB/Swiss-Prot Function]