

Product datasheet for **RR206254**

Mlycd (NM_053477) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mlycd (NM_053477) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mlycd
Synonyms:	Mcd
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR206254 representing NM_053477
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGAGGCTTGGGGCCAAGCTTGAAGGCTCGGCGCTGCTCCCACTGCGGTACCCGCCGGCCCTCCGG
 GGCTCGGGACCTAGGCTGTGCAGCGGCTCACGGCTAGCGCCATGGACGAGCTGTACGGCGAGCCGT
 GCCACCCACGCCGCCTACGAGCTGCGCGAGAAGACGCCGGCCCCGGCCGAGGGGAGTGCAGCGGACTTC
 GTGAGCTTTTACGGCGGCTGGCCGAGGCGGCCAGCGCGCCGAGCTGCTCGGCCGCTGGCTCAGGGCT
 TCGGCGTGGATCACGGCCAGGTAGCGGAGCAGAGCGCCGAGTGTGCAGCTGCGCCAGCAGTGCAGCGA
 GGCGGCGTGTCTGCTGCAGGCAGAGGACCGGCTACGCTATGCCCTCGTCCCGGATACCGTGGCCTCTTC
 CACCACATCAGTAAGCTGGACGGCGGCTGCGCTTCTGGTACAGCTGCGGGCCGATCTGCTGGAGGCGC
 AGGCCCTCAAGCTGGTGAAGGGCCGACGTCCGGAAATGAACGGAGTGTAAAAAGCATGCTGTCCGA
 GTGGTTCTCTGGCTTCTGAACCTGGAGCGGCTCACCTGGCACTCGCCCTGTGAGGTGCTTCAGAAG
 ATCAGCGATTGTGAGGCTGTGCAGCCTGTGAAAACTGGATGGACATGAAGCGGCGTGTGGGGCCATACC
 GGAGGTGTTACTTCTTCTCCCACTGCTCCACCCCGGGGACCCCTGGTTGTTCTGCATGTGGCTCTGAC
 CGGTGACATTTCCAACAACATCCAGAGCATTGTGAAAGAGTGCCTCCGTCTGAAACAGAGGAGAAGAAC
 CGGATCGCTGCTGCTGTCTTCTACTCCATCAGCCTGACCCAGCAGGGCCTGCAGGGCGTGGGACTCGGCA
 CCTTCTCATAAAGCGAGTGGTCAAGGAGCTGCAGAAGGAGTTTCTCATCTGGGGGCTTTTCCAGCCT
 GTCACCTATACCCGATTACCAAGTGGCTGCTGGGCTTCTGAATGTGCAGGAAAGGAGTATGGGAGG
 AACGAGCTGTTACAGACTCAGAGTGCAAAGAAATCGCAGAGGTACGGGCGACCCTGTTACGAGAGCC
 TCAAGGGTCTCTGAGCAGTGGTGAAGTGGGCGAAGTCTGAGAAGCTGGCACAGGCATGGGCGCCACT
 GATGAGACTGTGTGCTGGTACCTTTACGGTGAGAAGCACCGATACGCCCTCAATCCAGTGGCCAATTC
 CACCTGCAAGACGGGCTGTGATGTGGCTATCAACTGGATGGCTGACAGCAGCCTCAAAGGCTCACCA
 GCTCGTGCAGCCTCATGGTCAACTACCGTTACTACCTGGAGGAGACCGGCCCAACAGCATCTCCTACCT
 GGGCTCCAAGAACATCAAAGCTCCGAGCAGATCCTCAGCCTGGTAGCCAGTTCAGAGCAACAGCAAA
 CTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206254 representing NM_053477
 Red=Cloning site Green=Tags(s)

MRGLGPSLRARRLLPLRYPPRPPGPRGPRLC SGLTASAMDELLRRAVPPTPAYELREKTPAPAEGQCADF
 VSFYGGLAEEAAQRAELLGRLAQFGVDHGQVAEQSAGVLQLRQQSREAAVLLQAEDRLRYALVPRYRGLF
 HHI SKLDGGVRFVLVQLRADLLEAQLKLVEGPHVREMNGVLKSM LSEWFSSGFLNLERVTWHSPCEVLQK
 ISDCEAVQPVKNWMDMKRRVGPYRRCYFFSHCSTPGDPLVVLHVALTGDISNNIQSIVKECPPSETEEKN
 RIAAAVFYSISLTQQGLQGVGLGTFLIKRVVKELQKEFPHLGAFSSLSPIPGFTKWLGLLNVQGKEYGR
 NELFTDSECKEIAEVTGDPVHESLKGLLSSGEWAKSEKLAQALQGPLMRLCAWLYGKHYALNPVANF
 HLQNGAVMWRINWMDSSLKGLTSSCGLMVNYRYLEETGPNSISYLGSKNIKASEQILSLVAQFQSNK
 L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

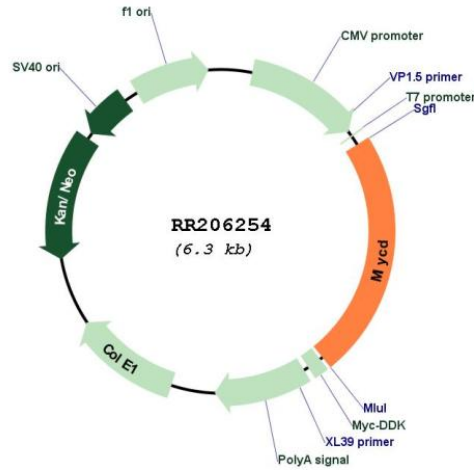
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_053477

ORF Size: 1473 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:

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_053477.1](#), [NP_445929.1](#)

RefSeq Size: 2020 bp

RefSeq ORF: 1476 bp

Locus ID: 85239

UniProt ID: [Q920F5](#)

Cytogenetics: 19q12

MW: 54.6 kDa

Gene Summary: plays a role in malonyl-CoA catabolism [RGD, Feb 2006]