

Product datasheet for **RR211474**

Mdh2 (NM_031151) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mdh2 (NM_031151) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mdh2
Synonyms: Mor1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211474 representing NM_031151
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGTCGGCTCTCGCCGTCCTGTCCGTGCCGCTCTCCGCCGAGCTTCAGCACTTCAGCCCAGAACA
ATGCTAAAGTAGCTGTCCTGGGAGCTTCTGGGGCATTGGGCAACCCCTTCACTCCTCCTGAAGAACAG
TCCCCTCGTGAGCCGCCCTGACCCTCTATGACATCGCTCACACACCTGGTGTGGCAGCAGATCTGAGTCAC
ATCGAGACCAGAGCAAATGTGAAAGGCTACCTCGGGCCGGAGCAGCTGCCGGACTGCCTAAAAGGTTGTG
ATGTGGTGGTCATCCCAGCTGGAGTGCCAGGAAGCCAGGAATGACACGAGATGACCTGTTCAACACCAA
TGCTACCATTTGTGGCCACATTGACGGCTGCCTGTGCCAGCACTGTCTGAAGCCATGATTTGCATCATT
TCCAACCCAGTTAACTCCACCATCCCCATCACAGCCGAAGTTTTCAAGAAGCATGGCGTATAACAACCCCA
ACAAGATATTCGGTGTGACAACCCTTGACATCGTCAGAGCAAACACATTTGTGGCAGAGCTAAAGGGTTT
GGACCCAGCTCGAGTCAATGTGCCTGTCTTGGTGCCACGCCGGGAAGACGATCATCCCCCTGATCTCT
CAGTGTACCCCAAGGTTGACTTTCCCAAGACCAGCTGGCCACACTCACCGGAGGATCCAGGAGGCTG
GCACTGAAGTCGTGAAGCCAAGGCTGGAGCAGGCTCTGCCACTGTCCATGGCTTATGCTGGAGCCCG
CTTTGTCTTCTCCCTGGTGGACGCCATGAATGGGAAGGAAGGAGTCATCGAGTGCTCTTTTGTTCAGTCC
AAAGAGACAGAGTGCACTTATTTCTCTACACCCTTGTGTTGGGAAAAAAGGCCTGGAGAAGAACCTAG
GCATTGGCAAATCACTCCTTTTGGAGAGAAAATGATTGCCGAGGCCATCCCTGAGCTGAAAGCCTCCAT
CAAGAAAGGCGAGGACTTTGTGAAGAACATGAAG

ACGGTACGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211474 representing NM_031151
Red=Cloning site Green=Tags(s)

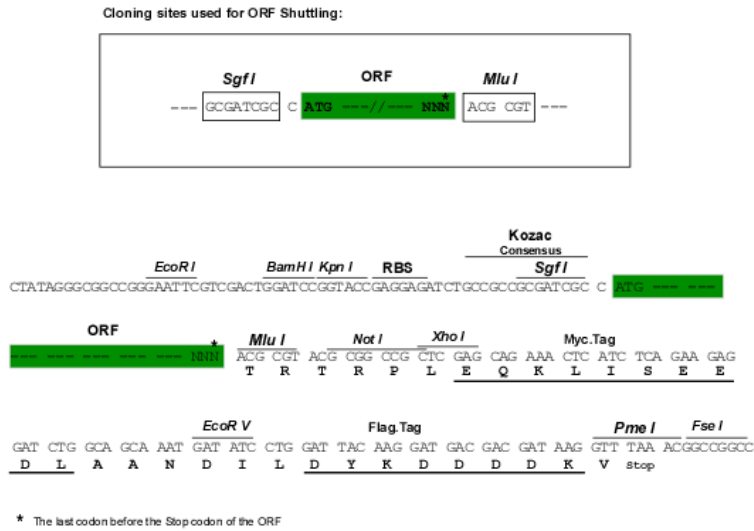
MLSALARPVGAALRRSFSTSAQNNNAKVAVLGASGGIGQPLSLLLKNSPLVSRLTLYDIAHTPGVAADLSH
 IETRANVKGYLGPEQLPDCLKGCDVVVIPAGVPRKPGMTRDDLFTNATIVATLTAACAQHCPEAMICII
 SNPVNSTIPITAEVFKKHGVYNPNKIFGVTTLDIVRANTFVAELKGLDPARVNPVIGGHAGKTIIP LIS
 QCTPKVDFPQDQLATLTGRIQEAGTEVVKAKAGAGSATLSMAYAGARFVSLVDAMNGKEGVIECSFVQS
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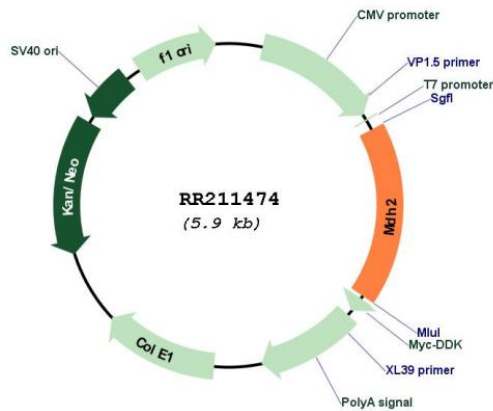
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031151

ORF Size: 1014 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_031151.2 , NP_112413.2
RefSeq Size:	1324 bp
RefSeq ORF:	1017 bp
Locus ID:	81829
UniProt ID:	P04636
Cytogenetics:	12q12
MW:	35.7 kDa
Gene Summary:	catalyzes the conversion of pyruvate or oxaloacetate to malate [RGD, Feb 2006]