

## Product datasheet for **MC216061**

### **Idh2 (NM\_173011) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Idh2 (NM_173011) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Idh2
Synonyms:	E430004F23; Idh-2; IDPm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216061 representing NM\_173011  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGGCTACCTGCGGGCTGTGAGCTCGCTCTGCAGAGCCTCGGGCTCAGCGGGACCTGGGCACCGG  
 CAGCACTGACTGTCCCAGCTGGCCGGAGCAGCCGCGGCCCACTATGCTGAGAAGAGGATCAAGGTGGA  
 GAAGCCGGTAGTGGAGATGGACGGTGACGAGATGACCCGGATCATCTGGCAGTTCATCAAGGAGAAGCTC  
 ATCCTGCCTCACGTGGATGTTCACTCAAGTATTTTACCTTGGGCTTCCAAACCGTGACCAGACCAATG  
 ACCAGGTCACCATTGACTCTGCTCTGGCCACCCAGAAGTACAGTGTGGCTGTCAAGTGTCCACAATCAC  
 CCCTGATGAGGCCGTGTGAAGAGTTCAGCTGAAGAAAATGTGAAGAGCCCTAACGGAACGATCCGG  
 AACATCCTTGGGGGAACCGTCTCAGAGAGCCAATCATCTGCAAAAACATCCCCCGCTTGTCCCTGGCT  
 GGACCAAGCCCATCACCATTGGCAGGCACGCCATGGCGACCAGTACAAGCCACAGATTTTGTGGTAGA  
 TCGAGCTGGCACGTTCAAGTTGGTCTTACCCCAAGGATGGCAGCAGTCCAAGGAGTGGGAGGTGTAT  
 AACTTCCCTGCCGAGGGTGGGATGGGATGTACAACACCGACGAGTCCATTTTCGGGCTTCGCGCACA  
 GCTGCTTCCAGTACTCTATCCAGAAGAAATGGCCGCTCTACTTGAGCACCAAGAACCATTCTGAAGGC  
 CTATGACGGGCGTTTCAAGGACATCTTCCAGGAGATCTTTGACAAGCACTATAAGACTGACTTCGACAAG  
 AATAAGATCTGGTATGAACATCGGCTCATCGACGACATGGTGGCCAGGTGCTCAAGTCTCCGGTGGCT  
 TTGTGTGGGCTTGCAAAAATATGATGGAGACGTGCAGTCTGACATCCTGGCTCAAGGCTTTGGCTCCCT  
 CGGCCTGATGACATCTGTGCTGGTCTGCCCTGATGGGAAGACAATTGAGGCTGAGGCTGCTCATGGGACA  
 GTCACCCGCCATTACCGAGAACCAGAAAGGGCCGCCACCAGTACCAACCCTATTGCCAGCATCTTTG  
 CCTGGACACGGGGTCTGGAGCATCGTGGGAAGCTGGATGGGAACCAGGACCTTATCAGTGTTCACAGAC  
 GCTGGAGAAGGTGTGCGTGCAGACTGTGGAGAGCGGAGCGATGACCAAGGACCTGGCTGGCTGTATCCAT  
 GGCTCAGCAATGTGAAGCTGAACGAGCACTTCTGAACACCACAGACTTCTGGACACCATTAAGAGCA  
 ACCTGGACAGAGCTCTGGCAAGCAGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_173011

**Insert Size:** 1359 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_173011.2](#), [NP\\_766599.2](#)

**RefSeq Size:** 1718 bp

**RefSeq ORF:** 1359 bp

**Locus ID:** 269951

**UniProt ID:** [P54071](#)

**Cytogenetics:** 7 45.43 cM

**Gene Summary:** Plays a role in intermediary metabolism and energy production. It may tightly associate or interact with the pyruvate dehydrogenase complex.[UniProtKB/Swiss-Prot Function]