

Product datasheet for **MG207208**

Idh2 (NM_173011) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Idh2 (NM_173011) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Idh2
Synonyms:	E430004F23; Idh-2; IDPm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207208 representing NM_173011
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCGGCTACCTGCGGGCTGTGAGCTCGCTCTGCAGAGCCTCGGGCTCAGCGCGACCTGGGCACCGG
 CAGCACTGACTGTCCCCAGCTGGCCGGAGCAGCCGCGGCCCACTATGCTGAGAAGAGGATCAAGGTGGA
 GAAGCCGGTAGTGGAGATGGACGGTGACGAGATGACCCGGATCATCTGGCAGTTCATCAAGGAGAAGCTC
 ATCCTGCCTCACGTGGATGTTCACTCAAGTATTTGACCTTGGGCTTCCAAACCGTGACCAGACCAATG
 ACCAGGTCACCATTGACTCTGCTCTGGCCACCCAGAAGTACAGTGTGGCTGTCAAGTGTCCACAATCAC
 CCCTGATGAGGCCGTGTGAAGAGTTCAGACTGAAGAAAATGTGAAGAGCCCTAACGGAACGATCCGG
 AACATCCTTGGGGGAACCGTCTCAGAGAGCCAATCATCTGCAAAAACATCCCCCGCTTGTCCCTGGCT
 GGACCAAGCCCATCACCATTGGCAGGCACGCCATGGCGACCAGTACAAGCCACAGATTTTGTGGTAGA
 TCGAGCTGGCACGTTCAAGTTGGTCTTACCCCAAAGGATGGCAGCAGTCCAAGGAGTGGGAGGTGTAT
 AACTTCCCTGCCGAGGGTGGGATGGGATGTACAACACCCAGCAGTCCATTTTCGGGCTTCGCGCACA
 GCTGCTTCCAGTACTCTATCCAGAAGAAATGGCCGCTCTACTTGAGCACCAAGAACCATTCTGAAGGC
 CTATGACGGGCGTTTCAAGGACATCTTCCAGGAGATCTTTCACAAGCACTATAAGACTGACTTCGACAAG
 AATAAGATCTGGTATGAACATCGGCTCATCGACGACATGGTGGCCAGGTGCTCAAGTCTCCGGTGGCT
 TTGTGTGGGCTTGCAAAAATATGATGGAGACGTGCAGTCTGACATCCTGGCTCAAGGCTTTGGCTCCCT
 CGGCCTGATGACATCTGTGCTGGTCTGCCCTGATGGGAAGACAATTGAGGCTGAGGCTGCTCATGGGACA
 GTCACCCGCCATTACCGAGAACCAGAAAGGGCCGCCACCAGTACCAACCCTATTGCCAGCATCTTTG
 CCTGGACACGGGGTCTGGAGCATCGTGGGAAGCTGGATGGGAACCAGGACCTTATCAGTGTTCACAGAC
 GCTGGAGAAGGTGTGCGTGCAGACTGTGGAGAGCGGAGCGATGACCAAGGACCTGGCTGGCTGTATCCAT
 GGCTCAGCAATGTGAAGCTGAACGAGCACTTCTGAACACCACAGACTTCTGGACACCATTAAGAGCA
 ACCTGGACAGAGCTCTGGCAAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207208 representing NM_173011
 Red=Cloning site Green=Tags(s)

MAGYLRAVSSLCRASGSARTWAPAALTVPSWPEQPRRHYAEKRIKVEKPVVEMDGDDEMTRIIWQFIKEKL
 ILPHVDVQLKYFDLGLPNRDQTNQVTIDSALATQKYSVAVKCATITPDEARVEEFKLLKMWKSPNGTIR
 NILGGTVFREPIICKNIPRLVPGWTKPITIGRHAHGDQYKATDFVDRAGTFKLVFPTKDGSSAKEWEVY
 NFPAGGVGMGYNTDEISGFAHSCFQYSIQKKWPLYLSTKNTILKAYDGRFKDIFQEIFDKHYKTDFDK
 NKIWIYEHRLIDDMVAQVLKSSGGFVWACKNYDGDVQSDILAQGFGLMTSVLVCPDGKTEAEAAHGT
 VTRHYREHQKGRPTSTNPIASIFAWTRGLEHRGKLDGNQDLIRFAQTLEKVCVQTVESGAMTKDLAGCIH
 GLSNVKLNEHFLNTTDFLDTIKSNLDRALGKQ

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_173011

ORF Size: 1356 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 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

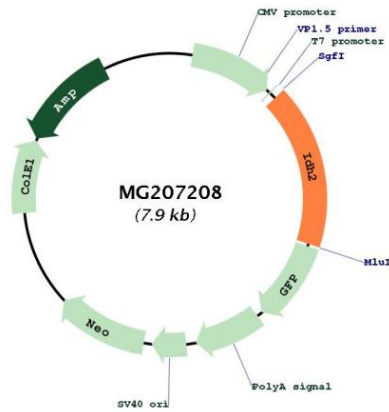
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_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]

Product images:



Circular map for MG207208