

Product datasheet for **MC202282**

Idh3a (NM_029573) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Idh3a (NM_029573) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Idh3a
Synonyms:	1110003P10Rik; 1500012E04Rik; AA407078; AI316514
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC049956 sequence for NM_029573
 GACGCGATGGCCGGTCCGCGTGGGTGTCCAAGGTCTCTCGGCTGCTGGGTGCATTCCACAACACAAAAC
 AGGTGACAAGAGGTTTTGCTGGTGGTGTTCAGACAGTAACTTTAATTCCTGGAGATGGAATTGGCCAGAG
 AATTTTCAGCCTCAGTCATGAAGATTTTTGATGCTGCCAAAGCACCTATTCAGTGGGAGGAGCGCAATGTC
 ACAGCAATTCAGGACCAGGAGGAAAGTGGATGATCCCTCCAGAAGCCAAGGAGTCCATGGATAAGAACA
 AGATGGGCTTGAAGGCCCACTAAAGACCCCAATAGCCGCTGGCCATCCATCTATGAATCTGTTGCTTCG
 TAAGACATTTGACCTTTATGCCAATGTCCGGCCATGTGTCTCAATTGAAGTTATAAAAACCCCTTACACG
 GATGTAATATCGTCACCATCCGAGAGAACACGGAAGGAGAATACAGTGAATTGAGCATGTGATCGTTG
 ATGGGGTTGTGCAGAGCATCAAGCTCATCACCGAAGAAGCAAGCAAGCGATTGCAGAGTTTGCCTTCGA
 GTACGCTCGAACAACCACGGAGCAACGTACAGCTGTGCACAAAGCTAACATCATGAGGATGTCAGAT
 GGGCTCTTTCTGCAAAAATGCAGGGAAGTTGCGGAGAAGTGTAAAGACATTAATTTAACGAGATGTACC
 TTGATACTGTATGTTAAATATGGTACAAGACCCATCCCAGTTTGTATGTTCTTGCATGCCAAATTTATA
 CGGAGACATCCTTAGTGATCTGTGTGCAGGACTGATTGGAGGTCTTGGGGTACTCCAAGTGCCAATATT
 GGAGCCAACGGTGTGCCATCTTGAATCGTTTATGGAACAGCCCCGGACATTGCAGGCAAGGACATGG
 CCAACCCACGGCCCTCTGCTTAGTGCTGTGATGATGCTTCGCCACATGGGACTTTTTGACCATGCAGC
 AAAAATCGAGGCTGCATGTTTTGCTACAATTAAGGATGGAAGAGCTTAACAAAAGATCTGGGAGGCAAC
 GCGAAGTGCTCTGACTTCACAGAAGAAATCTGTCTAGAGTCAAAGACTTAGATTAGCACTCCTGCTGGT
 GGATTTGCTGCAGTCAGTCAATCACTCCAAAAGGATACCTGTAAATCCTCCTTGAGGGCGCCACCATTG
 GTTTGCTTGTCTTGTACAGAGTACGTTTTTGAATCTGGCCTTTTCTTAACAAAACCCCTTGCAATGGAT
 GCACATGATGGCCCCAGGCCCTTCAATCAAGGGTTTTCCCAAGTCTGGTTGATTTATTGTCCGCTCGG
 TAAACCTATTTTGTAACTGTAAGTGAAGTGTATCATTATCATTGTTAACCCATTTTACACTTCAGGC
 AAAATCATTTCCTCAACTGTAATATTCTGATACAGAATTAATAAGAGAAGATATTTAACTTTTTAACA
 AAAGCCCTGGATTTTTGGTTTATGAAAAACAACTGGGAATAAAACAGGGTTTTAACAAATCGCACAAAGAT
 AACATTATTCTAATACTAATGGGTACAAAAGAAATTTACTGGGAAAGTTCACAGCAAAAAAATGGTATAT
 TTCTTAAAAATATGGAATAAAGTATTTGTCTATACATGAATTAATTAATAAAAAATGAAGTCCAA
 GAAATCCATAATGAATGATGTAATTTTGTACTACATCGGTAATCCTTGTCAAGGCCCGGATGCTCTCT
 GTGATTTGATTCTTTTGTACCTTGAGATTAATTTTGGGGGAGAGCTTTCAGATAAGGGAGATCA
 CTCCTCACTAGACAGATCGTCAGCATTGCGAGCTGTGAGCCATGAGAGCCAGCCACTGCAGATCCCTCC
 CACGTGGCCACACTCCAGCCAGTGTGCAGGTGACCTGGAAAGGCTGGCTGCCCTTGACTTTCCCTA
 AAGCAACCAGTCACTGCCTTCTGCCCAGTAGCACCCATTACAGACTTAATTGCCGAGGTGGAGCTGACT
 CAGCCCACGCTCATACAATCAGGCCAAGCGGGGCTGTGTTACCAGCTGCTGACCATCAGGTTCTGCC
 CCTCATTCTTCCACAGCCTCTGCTCCACAGCATGAACCTAGCCTTTGGCCACACCAAAGCCAAGCTGT
 CTTCCCTTAGCCCTTGCCTAGTTTGCAAACTCGTGGCTTTGCATAATGTACCCTGGTCCCAAGGGGATT
 TCTTAACAACAGATGTCCTGTCTGGGTCATTTTTTAAAGCTTTTATTTGGACTTACAATCTTCTGTGT
 ATTTTACTTTAAACTGCTGCTTTCCCTGTCTCACTGGATTGTTCTGGTTAGCAGTGGCTTTGGGTTTCA
 AGTAATAAAGAACTTAAGAACTGAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_029573

Insert Size: 1101 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: [BC049956](#), [AAH49956](#)

RefSeq Size: 2418 bp

RefSeq ORF: 1101 bp

Locus ID: 67834

UniProt ID: [Q9D6R2](#)

Cytogenetics: 9 A5.3

Gene Summary: Catalytic subunit of the enzyme which catalyzes the decarboxylation of isocitrate (ICT) into alpha-ketoglutarate. The heterodimer composed of the alpha (IDH3A) and beta (IDH3B) subunits and the heterodimer composed of the alpha (IDH3A) and gamma (IDH3G) subunits, have considerable basal activity but the full activity of the heterotetramer (containing two subunits of IDH3A, one of IDH3B and one of IDH3G) requires the assembly and cooperative function of both heterodimers.[UniProtKB/Swiss-Prot Function]