

Product datasheet for **MC204094**

D2hgdh (NM_178882) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	D2hgdh (NM_178882) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	D2hgdh
Synonyms:	AA408776; AA408778; AI325464
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC023277
 AGGGGTGGGAAGCAGGGTGCGGGTGCGGGTGCGGACTCGGTCTTTGCACTCGGACGGAAGCTAGGGAACA
 ATGGTGTCTCCCTCTGGTGTCCAGATGGTCTGCAAGGGTCTCTGGGCATCTCCAGGATGGAGGAGGACCT
 ACACCCAGAGAGCTTGTGTGGGGTTGAAGCGGCTGGGTTGCCCTCGGGGTGTGTACAGCCCTTGGCTCA
 CAGAGCGTACTCCGTGGTAGCTGGCAGCCAGAGGTGACGCTGACCCCTGAGCGATATCCGGTGCAACGG
 CTGCCGTTTTCTACTGTGTCCGAGGAGGACCTGGCTGCATTTGAATGCATCATACCTGGCAGAGTTATCA
 CAGATCCAGAGCAACTGCAGACATGCAACGTTGACTGGCTGAAGACCGTCCGGGGTTGTAGTAAGGTGTT
 GCTGAGACCCCGACCTCAGAGGAAGTCTCCAGATTCTTAGGCACTGCTACAAGAGGAACCTGGCTGTG
 AACCCACAGGGCGGGAACACTGGCATGGTGGGTGGCAGTGTCCCTGTCTTTGACGAAGTCATCCTGTCCA
 CTGCCCTCATGAATCAAGTCATCAGCTTTCACGATGTATCTGGAATCCTGGTTTGGCAGGAGGCTGTGT
 GCTGGAGGAGCTGAGCAGGTACGTGCAGGAGCGGGACTTCATCATGCCACTGGACTTGGGAGCGAAGGGC
 AGCTGCCACATCGGGGAAATGTGGCAACAAATGCTGGTGGCCTGCGATTCTGAGATATGGCTCCCTTC
 GAGGGACTGTCTGGCCTGGAAGTGGTACTCGCTGATGGGACCATCCTGAACTGCCTGACATCTCTGAG
 GAAGGACAACACAGGCTATGACCTGAAGCAGATGTTTATTGGGTGAGAGGACCCCTGGGAGTCATCACT
 GCTGTGTCCATTGTGTGCCACCCAGGCCTAAGGCTGTGAATGTGGCTTTCCTTGGCTGCCCTGGGTTCTG
 CTGAGGTTCTGCAGACCTTCCGCACCTGCAGGGGGATGCTGGGTGAGATCCTGTCTGCCTTTGAGTTCAT
 GGATACTGAATGCATGCAGTTGGTTGGACAGCACCTCCAGCTGACCAACCCAGTACAAGAGAGTCCATTC
 TATGTCCTGGTTGAGACCTCAGGCTCCAGTGCAGGACATGATGCTGAGAAGCTGACGAACGTCCTGGAGC
 AGGTGCTGAATTTCTGGCCTGGTGACAGATGGCACTATGGCCACCGACAGAGGAAAGTCCAGATGCTGTG
 GGCCTTGGGGAGAGGATCACAGAGGCACTCAGCCGCGATGGCTATGTGTTCAAGTATGACTTATCTCTC
 CCTGTGGAGCGGCTCTACGACCTTGTGATCGACCTACGCACCCGCCTTGGCCCCGTGCCAAGCAGTG
 TGGGATATGGACACCTGGGGATGGCAACCTTCACCTGAACGTGACAGCAGAGGCCTTTAGCCGGAGTT
 GCTCGGTGCCTTGAACCTTATGTGATGCCTGGACAGCTGAGCAGCGGGGAGTGCAGTGCGGAGCAC
 GGCTTGGGCTTCAAGAAGAAGGATGTACTTGGCTATAGCAAGCCACCTGTGGCCGTGACGCTTATGCAAC
 AGCTCAAGGCCATGCTGGACCCAAAGGCATCCTGAACCCCTATAAGACTCTACCTGCCAGGCCTAAAT
 GAAGCTTTTTCAGCTTGTGCAAGATGCTAGGACTAGGTGAAGGAAGGTTTGGTAGGCCTGGAGGCCTCCCA
 GCTGATGTCATCCACAATAGACCAGGTTACTGACTCTCACTGTTAGCCAGGAGCCAGCTCTGAGCACCT
 CTGGACAAGGTTGCCTCTCTGTGGGGGCAACAGATCAGATAGAGCTGCCAGGCCTTCTTTTGTGTCT
 GTGGACAGAATAAGTGGTGGGCAATTGCCCTACTCCAAACAGGCCAGATCTACCAGCTCTGGGGTGG
 GTGGCCTGTGGAGACCTGCTTTGTGTCATCTCTATAGCGCGTAATTTTAAAGATCCCTACTTGCCTGGT
 GACTTGGCAGGCTGCCACAGTCTCTCACTCTCACTCAGCTTCGCTAATGGCCAGTTGGCCATTTTCCCC
 TGGAGCTGTGATTGCTCCCCATCCCCTCATGGCTAGCTTTGTCAAACGTGCGCCAAACACTGCCCAAT
 GGATAGAAAACACCAGTTTTATTATCTTAAACTAGACAGATAACTCAATGGCTGGGTGAAGAATTTCT
 GCCCCAATCTTATCAACTAGCTCCCTCAATCTTGCCTGGCCTTCTGCCACAGCAGAAGCTATAAACTCT
 GTGAGCCCCAAGACCTACATGTCTACAGCATCCTACTCGCTCCAAAGCCTGGTTCAAATTTCTGCTTCTT
 CTTTCTTCTTCTGCCTGGGACCTACAACCTCAATCTTTTTCCCTTACCCCAACAATTAGCTTCTGCCTC
 CTTTATTGACACAATCAAGAATCAATTAGGGAACCAATACCTCTCACTCCACATCTCTGGGAAGAGAACC
 ACGTGATCTCTTGGATGGATCTTACTGGACAGTTTGCCTGTGGCATGTATTCTCTGAGGCTGCAGCAG
 AGTTGTCTAGCCCCAGATTAGTTACCACAGTGACAGAGAATGCCAGAATCATTCCCAAGGCGCTGAGTG
 GGGTTTGTGTATATCAAGCAGGCCTTGAATTGGTAACGTGGTCCACCTGGCTAGGACATTCCCTCAG
 GTTTTGTTCGTTTTAAGACAGGTTCTCTACGTAATTCTTACTGTTCTGGAACCTATGATGTAGACCAG
 ATAGACCTTTAACTCACAGAGCTCCTCCATGCCTCTGCCTTACTTCTGCCCCCTGAGCAATGTGATTAA
 AGGCAAGTGCCACTACACCCAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_178882
Insert Size: 1608 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>BC023277</u> , <u>AAH23277</u>
RefSeq Size:	2908 bp
RefSeq ORF:	1608 bp
Locus ID:	98314
UniProt ID:	<u>Q8CIM3</u>
Cytogenetics:	1 D
Gene Summary:	Catalyzes the oxidation of D-2-hydroxyglutarate to alpha-ketoglutarate.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) uses an alternate splice junction at the 3' end of the first exon compared to variant 1, which results in translation initiation from a downstream AUG. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.