

Product datasheet for **RN208309**

D2hgdh (NM_001106926) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	D2hgdh (NM_001106926) Rat Untagged Clone
Tag:	Tag Free
Symbol:	D2hgdh
Synonyms:	RGD1307976
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN208309 representing NM_001106926
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGTGTCTCCATTGGTGTCCAGATGGTCTGCAAGCCTCTTCAGGGCATCTCAAGATGGAAAAAGACCT
 ACAGCCAGAGAGCTTCTGCGCAGTTGAAGTGGCTGGGTTGCCCTCGGAGTGTGTACAGCCCTTGGCTTG
 CAGAGCATACTCCAAGGTCTCTGGCAGCCCTGAGGTGATGCTGACCCCTGAGCGATACCCAGTGCAACGG
 CTGCCGTTTTCTACCGTGTGAGGAGGACCTGGCTGCATTTGAATGCATCATACCTGGCAGAGTTATCA
 CAGATCCAGAGCAACTGCAGACTTGCAATGTGGACTGGCTGAGGACCGTGCAGGGCTGTAGTAAGGTGCT
 GCTGAGACCCAGACCTCAGAGGAAGTCTCCAGATTCTTAGGCACTGCTATAAGAGGAAGTTGGCTGTG
 AACCCACAGGGCGAAACACTGGCATGGTGGTGGCAGTGTCCCTGTCTTTGATGAAGTCATCCTGTCCA
 CTGCCCTCATGAATCAAGTCATCAGCTTTCATGATGTGTCTGGAATTCTGGTTTGCAGGAGGCTGCGT
 GCTGGAGGAGCTGAGCAGGTACGTGCAGGAGCGGACTTCATCATGCCACTGGACTTGGGTGCAAGGGC
 AGCTGCCACATTGGGGTAAATGTCGCAACGAACGCTGGGGTCTGCGGTTTCTGCGGTACGGCTCTCTTC
 GAGGGACTGTCTGGGCCTGGAAGTGGTACTTGCTGATGGAACCATCCTGAACTGCCTGACCTCTTTGAG
 GAAGGACAACACTGGCTATGACCTGAAGCAGATGTTTCATTGGGTGAGGGCACCTGGGAGTCATCACT
 GCTGTATCCATCGTGTGCCACCGAGGCCAAGGCTGTGAATGTGGCTTTCCTTGGCTGCCCTGGGTTTA
 CTGAGGTTCTGCAGACCTTCTGCACCTGCAAGGGGCAACTGGGCGAGATCCTGTCTGCCTTTGAGTTTAT
 GGATGCCGAATGCATGCAGTTGGTTGGACAGCACCTCCACCTGACCAACCCAGTACAAGAGAGTCCATTC
 TATGTCTGTTGAGACCTCAGGCTCCAGTGCCGGGCACGATGCTGAGAACTGACCAACGTCCTGGAGC
 AAGTGGTGAATTCTGGCTGGTATCGATGGCACTATGGCCACCGACAGAGGAAAGTCCAGATGCTGTG
 GGCTTTCGCGGAAAGGATCACAGAGGCACTCAGTCGTGACGGCTACGTGTTCAAGTATGACTTATCCCTC
 CCCGTGGAGCGGCTCTATGACCTTGTGATCGACCTGCGCACCCGCTTGGCCCTCAGCCAAAGCATGTGG
 TGGGATATGGGCACTTGGGGATGGCAACCTTCACCTGAACGTGACAGCAGAGGCCTTTAGCCAGGAGCT
 GCTTGGTGCCTTGGAGCCTTATGTGTACGCTGGACAGCGGAACAGCGGGGCAGCGTCAGTGCTGAGCAC
 GGCCTGGGCTTCAAGAAGAAGATGTACTCGGCTATAGCAACGCCACCTGTGGCTGTGAAGCTTATGCAA
 CAGCTGAAGGCCATGCTGGACCCAAAGGCATCCTGAACCCCTA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001106926

Insert Size: 1587 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:	<u>NM_001106926.1</u> , <u>NP_001100396.1</u>
RefSeq Size:	2279 bp
RefSeq ORF:	1587 bp
Locus ID:	301624
Cytogenetics:	9q36
Gene Summary:	Catalyzes the oxidation of D-2-hydroxyglutarate to alpha-ketoglutarate.[UniProtKB/Swiss-Prot Function]