

Product datasheet for **MR208571**

D2hgdh (NM_178882) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	D2hgdh (NM_178882) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	D2hgdh
Synonyms:	AA408776; AA408778; AI325464
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208571 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGCTCCCTCTGGTGTCCAGATGGTCTGCAAGGGTCTCTGGGCATCTCCAGGATGGAGGAGGACCT
 ACACCCAGAGAGCTTGTGTGGGGTTGAAGCGGCTGGGTTGCCCTCGGGGTGTGTACAGCCCTTGGCTCA
 CAGAGCGTACTCCGTGGTAGCTGGCAGCCAGAGGTGACGCTGACCCCTGAGCGATATCCGGTGCAACGG
 CTGCCGTTTTCTACTGTGTCCGAGGAGGACCTGGCTGCATTTGAATGCATCATACTGGCAGAGTTATCA
 CAGATCCAGAGCAACTGCAGACATGCAACGTTGACTGGCTGAAGACCGTCCGGGGTTGTAGTAAGGTGTT
 GCTGAGACCCAGACCTCAGAGGAAGTCTCCAGATTCTTAGGCACTGCTACAAGAGGAAGTGGCTGTG
 AACCCACAGGGCGGGAACACTGGCATGGTGGGTGGCAGTGTCCCTGTCTTTGACGAAGTCATCCTGTCCA
 CTGCCCTCATGAATCAAGTCATCAGCTTTCACGATGTATCTGGAATCCTGGTTTGCCAGGACGGCTGTG
 GCTGGAGGAGCTGAGCAGGTACGTGCAGGAGCGGGACTTCATCATGCCACTGGACTTGGGAGCGAAGGGC
 AGCTGCCACATCGGGGAAATGTGGCAACAAATGCTGGTGGCCTGCGATTCTGAGATATGGCTCCCTTC
 GAGGGACTGTCTGGGCCTGGAAGTGGTACTCGCTGATGGGACCATCCTGAACTGCCTGACATCTCTGAG
 GAAGGACAACACAGGCTATGACCTGAAGCAGATGTTTATTGGGTGAGGGCACCCCTGGGAGTCACACT
 GCTGTGTCCATTGTGTGCCACCCAGGCCTAAGGCTGTGAATGTGGCTTTCCTTGGCTGCCCTGGGTTCC
 CTGAGGTTCTGCAGACCTTCCGCACCTGCAGGGGGATGCTGGGTGAGATCCTGTCTGCCTTTGAGTTCAT
 GGATACTGAATGCATGCAGTTGGTTGGACAGCACCTCCAGCTGACCAACCCAGTACAAGAGAGTCCATTC
 TATGTCTGGTTGAGACCTCAGGCTCCAGTGCAGGACATGATGCTGAGAAGCTGACGAACGTCCTGGAGC
 AGGTGCTGAATTCGGCCTGGTACAGATGGCACTATGGCCACCGACAGAGGAAAGTCCAGATGCTGTG
 GGCTTTCGGGGAGAGGATCACAGAGGCACTCAGCCGCGATGGCTATGTGTTCAAGTATGACTTATCTCTC
 CCTGTGGAGCGGCTCTACGACCTTGTGATCGACCTACGCACCCGCTTGGCCCCGTGCCAAGCAGCTGG
 TGGGATATGGACACCTGGGGGATGGCAACCTTACCTGAACGTGACAGCAGAGGCCTTTAGCCGGGAGTT
 GCTCGGTGCCCTTGAACCTTATGTGATGCCTGGACAGCTGAGCAGCGGGGCAGTGTGAGTGCAGGAC
 GGCCTGGGCTTCAAGAAGAAGGATGACTTGGCTATAGCAAGCCACCTGTGGCCGTGACGCTTATGCAAC
 AGCTCAAGGCCATGCTGGACCCCAAGGCATCCTGAACCCCTATAAGACTCTACCTGCCACGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208571 protein sequence
 Red=Cloning site Green=Tags(s)

MVLPLVSRWSARVLAWSPGWRRTYTQRACVGLKRLGCPRGVYSPLAHRAYSVVAGSPEVTLTPERYPVQR
 LPFSTVSEEDLA AFECIIPGRVITDPELQTCNVDWLKTVRGC SKVLLRPQTSEEVSQILRHCYKRNLA V
 NPQGGNTGMVGGSVPFDEVILSTALMNQVISFHDVSGILVCQAGCVLEELSRVYQERDFIMPLDLGAKG
 SCHIGGNVATNAGGLRFLRYGSLRGTVLGLEVLADGTILNCLTSLRKDNTGYDLKQMFIGSEGLGVIT
 AVSIVCPPRPKAVNVAFLGCPGFAEVLQTFRTCRGMLGEILSAFEFMDTECMQLVGQHLQLTNPVQESPF
 YVLVETSGSSAGHDAEKL TNVLEQVLNSGLVTDGTMATDQRKVQMLWALRERITEALSRDGYVFKYDL SL
 PVERLYDLVIDLRTRLGPRAKHVVG YGHLGDGNLHLNVTAEAFSRELLGALEPYVYAWTAEQRGSVSAEH
 GLGFKKKDVLYGSKPPVAVTLMQQLKAMLDPKGILNPKLTPAQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_178882

ORF Size: 1605 bp

OTI Disclaimer: 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_178882.1](#), [NM_178882.2](#), [NM_178882.3](#), [NM_178882.4](#), [NP_849213.1](#)

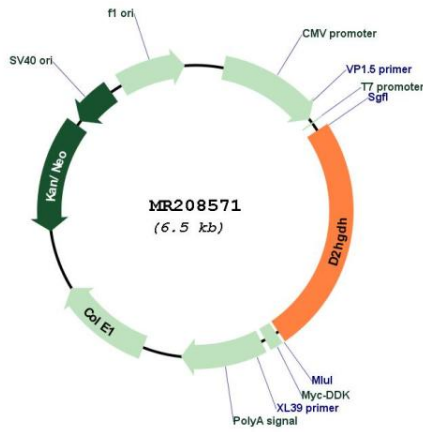
RefSeq Size: 3058 bp

RefSeq ORF: 1608 bp

Locus ID: 98314

UniProt ID: [Q8CIM3](#)
 Cytogenetics: 1 D
 MW: 58.6 kDa
 Gene Summary: Catalyzes the oxidation of D-2-hydroxyglutarate to alpha-ketoglutarate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208571