

## Product datasheet for **MG208571**

### **D2hgdh (NM\_178882) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	D2hgdh (NM_178882) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	D2hgdh
Synonyms:	AA408776; AA408778; AI325464
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG208571 representing NM\_178882  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTGCTCCCTCTGGTGTCCAGATGGTCTGCAAGGGTCTCTGGGCATCTCCAGGATGGAGGAGGACCT  
 ACACCCAGAGAGCTTGTGTGGGGTTGAAGCGGCTGGGTTGCCCTCGGGGTGTGTACAGCCCTTGGCTCA  
 CAGAGCGTACTCCGTGGTAGCTGGCAGCCAGAGGTGACGCTGACCCCTGAGCGATATCCGGTGCAACGG  
 CTGCCGTTTTCTACTGTGTCCGAGGAGGACCTGGCTGCATTTGAATGCATCATACTGGCAGAGTTATCA  
 CAGATCCAGAGCAACTGCAGACATGCAACGTTGACTGGCTGAAGACCGTCCGGGGTTGTAGTAAGGTGTT  
 GCTGAGACCCAGACCTCAGAGGAAGTCTCCAGATTCTTAGGCACTGCTACAAGAGGAAGTTGGCTGTG  
 AACCCACAGGGCGGGAACACTGGCATGGTGGGTGGCAGTGTCCCTGTCTTTGACGAAGTCATCCTGTCCA  
 CTGCCCTCATGAATCAAGTCATCAGCTTTCACGATGTATCTGGAATCCTGGTTTGCCAGGACGGCTGTGT  
 GCTGGAGGAGCTGAGCAGGTACGTGCAGGAGCGGGACTTCATCATGCCACTGGACTTGGGAGCGAAGGGC  
 AGCTGCCACATCGGGGAAATGTGGCAACAAATGCTGGTGGCCTGCGATTCTGAGATATGGCTCCCTTC  
 GAGGGACTGTCTGGGCCTGGAAGTGGTACTCGCTGATGGGACCATCCTGAACTGCCTGACATCTCTGAG  
 GAAGGACAACACAGGCTATGACCTGAAGCAGATGTTTATTGGGTGAGAGGGCACCCCTGGGAGTCACACT  
 GCTGTGTCCATTGTGTGCCACCCAGGCCTAAGGCTGTGAATGTGGCTTTCCTTGGCTGCCCTGGGTTCC  
 CTGAGGTTCTGCAGACCTTCCGCACCTGCAGGGGGATGCTGGGTGAGATCCTGTCTGCCTTTGAGTTCAT  
 GGATACTGAATGCATGCAGTTGGTTGGACAGCACCTCCAGCTGACCAACCCAGTACAAGAGAGTCCATTC  
 TATGTCTGGTTGAGACCTCAGGCTCCAGTGCAGGACATGATGCTGAGAAGCTGACGAACGTCCTGGAGC  
 AGGTGCTGAATTCTGGCCTGGTACAGATGGCACTATGGCCACCGACAGAGGAAAGTCCAGATGCTGTG  
 GGCTTGCGGGAGAGGATCACAGAGGCACTCAGCCGCGATGGCTATGTGTTCAAGTATGACTTATCTCTC  
 CCTGTGGAGCGGCTCTACGACCTTGTGATCGACCTACGCACCCGCTTGGCCCCGTGCCAAGCACGTGG  
 TGGGATATGGACACCTGGGGATGGCAACCTTACCTGAACGTGACAGCAGAGGCCTTTAGCCGGGAGTT  
 GCTCGGTGCCCTTGAACCTTATGTGTATGCCTGGACAGCTGAGCAGCGGGGCAGTGTGAGTGCAGGAC  
 GGCCTGGGCTTCAAGAAGAAGGATGACTTGGCTATAGCAAGCCACCTGTGGCCGTGACGCTTATGCAAC  
 AGCTCAAGGCCATGCTGGACCCCAAGGCATCCTGAACCCCTATAAGACTCTACCTGCCAGGCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208571 representing NM\_178882  
 Red=Cloning site Green=Tags(s)

MVLPLVSRWSARVLWASPGWRRTYTQRACVGLKRLGCPRGVYSPLAHRAYSVVAGSPEVLTTPERYPVQR  
 LPFSTVSEEDLA AFECIIPGRVITDPEQLQTCNVDWLKTVRGCSKVLRLPQTSEEVSQILRHCYKRNLA  
 NPQGGNTGMVGGSPVDFDEVILSTALMNQVISFHDVSGILVCQAGCVLEELSRVYQERDFIMPLDLGAKG  
 SCHIGGNVATNAGGLRFLRYGSLRGTVLGLEVVLADGTILNCLTSLRKDNTGYDLKQMFIGSEGTLGVIT  
 AVSIVCPPRPKAVNVAFLGCPGFAEVLQTFRTCRGMLGEILSAFEFMDTECMQLVGQHLQLTNPVQESPF  
 YVLVETSGSSAGHDAEKL TNVLEQVLSGLVTDGTMATDQRKVQMLWALRERITEALSRDGYVFKYDL SL  
 PVERLYDLVIDLRTRLGPRAKHVVG YGHLGDGNLHLNVTAEAFSRELLGALEPYVYAWTAEQRGSVSAEH  
 GLGFKKKDVLYGSKPPVAVTLMQQLKAMLDPKGILNPYKTLPAQA

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_178882
<b>ORF Size:</b>	1605 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_178882.2</a> , <a href="#">NP_849213.1</a>
<b>RefSeq Size:</b>	3004 bp
<b>RefSeq ORF:</b>	1608 bp
<b>Locus ID:</b>	98314
<b>UniProt ID:</b>	<a href="#">Q8CIM3</a>
<b>Cytogenetics:</b>	1 D
<b>Gene Summary:</b>	Catalyzes the oxidation of D-2-hydroxyglutarate to alpha-ketoglutarate.[UniProtKB/Swiss-Prot Function]