

Product datasheet for **MC222275**

Dmgdh (NM_028772) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dmgdh (NM_028772) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dmgdh
Synonyms:	1200014D15Rik; AI787269
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222275 representing NM_028772
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCCGCCCGGGCGCGTGC GGCTGCGGGCCCTCGCGTGC GGGGCTCCCCAGGCGCCCAAGCTCCG
 CTGGCCTCCGGGAAGGACAGGAAAGCCAGCCTACCCCCAGAATGGAAGGACAGAGCAGAGACTGTGAT
 CATTGGAGGCGGCTGTGTGGCGTGAGCCTGGCTTATCATCTGGCCAAGGCTGGGATGAGAGATGTGGTC
 CTGATGGAGAAGTCGGAGCTCACCGCTGGCTCTACCTGGCACGCAGCAGGTTTAACTACTTTCCACC
 CCGGGATAAACTTGAAGAAAATACATTATGACAGCATCAAACCTTACGAGAGGCTGGAAGAAGAAACCGG
 ACAGGTGGTGGGATTCATCAACCAGGTAGTATCAGGCTTGCTACAACCTCTGTAAGGGTGGACGAATTT
 AAATACCAATGACGCGAACCAACTGGCACGCCACGGAACAGTATATTATTGAGCCTGAAAAATCCACG
 AGCTGTTCCCTTACTCAACATGAACAAGATTTAGCCGGACTGTATAACCCAGGAGATGGCCACATTGA
 TCCTTATTCTGACGATGGCCCTGGCTGCTGGTCTAGGAAATATGGGGCCCTTCTAAAGTATCCAGCA
 CCAGTGACATCTCTGAAGCCAGGCCAGATGGGACATGGGATGTGGAGACTCCACAAGGATCTGTGAGAG
 CAAATAGGATTGTGAATGCTGCAGGATTTGGGCTCGTGAAGTGGGTAATGATTGGACTAGACCACC
 CCTCATCCCCGTCCAACATCAATATGTCGTACATCAACAATCCCAGAAGTGAAGGCTTTGAAACGAGAG
 CTCCCCGTCTCCGCGACCTGGAAGGATCCTACTACCTCCGACAGGAAAGGGATGGGCTTTTGTGGT
 CCTATGAAAGTCAGGAGAAGATGAACTCCAAGCCTCTGGGCTACTCACGGAGTCCCTCCAGGCTTTGG
 AAAGGAGCTTTTGTAGTCTGATTTAGATCGAATCTCAGACCACCTGGAAGCTGCCATGGAGATGATTCCT
 GTCTTGAAGAAGCGGACATCATCAATGTCGTCATGGCCCTATCACCTACTCTCCGACATTCTCGCTA
 TGGTGGGCCCCATCAGGGGGTCAGAACTACTGGTGGCGACTGGCTTTGGATACGGCAATATCCATC
 TGGTGGGTAGGCAAGTTCCTCAGTGACTGGATCCTGCATGGAGAACCTCCTTTTGACCTGATAGAAGT
 GATCCCAATCGCTACGGCAAATGGACGACGACACAGTACACCGAGGCCAAAGCCGAGAATCATATGGGT
 TCAACAACATTGTTGTTATCCTAAAGAAGAGCGGTTTGTGGGAGGCCAACCCAGAGAGTCAGTGGACT
 TTACAAAACCTGAAGTCCAAGTGTTCATGGGCTTCCATGCAGGCTGGGAACAGCCACATTGGTCTAT
 AAGCCTGGCCAGGACTCAGTATAGGCCAAGTTCCGCCGCACAACTGGTTTGTAGCCGGTGGGCTCTG
 AGTACAAACAGGTTATGCAAAGAGTTGGTGTGATTGACCTGTCTCCATTTGGCAAGTTCAACATCAAAGG
 CCGAGATTCTACCAACTCTGGACCATCTTTGCTAATGTCTCCCAAGTGGGTTTTACAAACATA
 AGTCACATGTTGACGCCAGAGGTCGGGTGTATGCTGAGCTGACTGTTTCCAGCAGTCTCCTGGGAGT
 TCCTGTTGATCACTGGCTCCGGGTCGGAGCTTACGACCTTAGATGGATTGAAGAAGCAGCCTTCAGAGG
 TGGATATGATGTGAAATTCAAAACATAACCGATGAGTTTGGGGTCTGGGAGTTCAGGGCCATATGCA
 AGAAGAGTCTTCAGAAGCTGACCTCAGAAGATCTCAGCGATGATGCATTCAAGTTTCTTCAAACCAAT
 CTTTTAACATCTCAGACATTCCAGTCACTGCTATCAGAACTCTCTATACTGGTGAGCTGGGCTGGGAGCT
 GTACCACAGACGAGAAGATTCTGCGACGCTTTATGAGCGCATCATGAGTGCCGGCCAGGAGGAGGGC
 GGCAGCTTTGGAACCTACGCCCTGAACGCTTTGAGACTGGAGAAGGCTTTCCGAGCCTGGGGCTCCGAGA
 TGAAGTGTGACACAAACCCCTTGAAGCTGGGCTGGAATATTTCTGTAAGCTGAATAAGCCCGCTGACT
 CATAGGGAAGCAGGCCCTGAAGCAGATTAACCCGAGGGGCTAAAGCGGAGACTGGTCTGCCTCACCGTG
 GCAACGGACGATGTGGATCCAGAGGGAATGAAAGCATTGGTACAAGGGCAAGGTGGTTGGCAACACAA
 CATCTGGAAGCTACAGTTACAGCATTGAGAAGAGCCTGGCTTTTCTTATGTCCAGTCCAGCTCAGTGA
 AGTGGGACAGCAAGTGGAGGTTGAACTACTGGGTAATAATACCCAGCCACCATTATACAAGAACCCTG
 GTACTCACGGAGCCTGCCGAGCCAGGCTTCAAAAGACGGTAAAAAGACAAATCTTGAGAAAGGCCAT
 CCCGGACAACCAAGTT**AG**

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_028772
Insert Size: 2610 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:	<ol style="list-style-type: none">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:	NM_028772.3 , NP_083048.1
RefSeq Size:	2979 bp
RefSeq ORF:	2610 bp
Locus ID:	74129
UniProt ID:	Q9DBT9
Cytogenetics:	13 C3
Gene Summary:	This gene encodes an enzyme involved in the catabolism of choline, catalyzing the oxidative demethylation of dimethylglycine to form sarcosine. The enzyme is found as a monomer in the mitochondrial matrix, and uses flavin adenine dinucleotide and folate as cofactors. [provided by RefSeq, Jul 2013]