

Product datasheet for **MG224057**

Dmgdh (NM_028772) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dmgdh (NM_028772) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dmgdh
Synonyms:	1200014D15Rik; AI787269
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG224057 representing NM_028772
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTCCGCCCGGGCGCGTGC GGCTGCGGGCCCTCGCGTGC GGGGCTCCCCAGGCGCCCAAGCTCCG
 CTGGCCTCCGGGAAGGACAGGAAAGCCAGCCTACCCCCAGAATGGAAGGACAGAGCAGAGACTGTGAT
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 AAATACCAATGACGCGAACCAACTGGCACGCCACGGAACAGTATATTATTGAGCCTGAAAAATCCACG
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 GTACTCACGGAGCCTGCCGAGCCAGGCTTACAGAAAGACGGTAAAAAGACAAATCTTGAGAAAGGCCAT
 CCCGGACAACCAAGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224057 representing NM_028772
 Red=Cloning site Green=Tags(s)

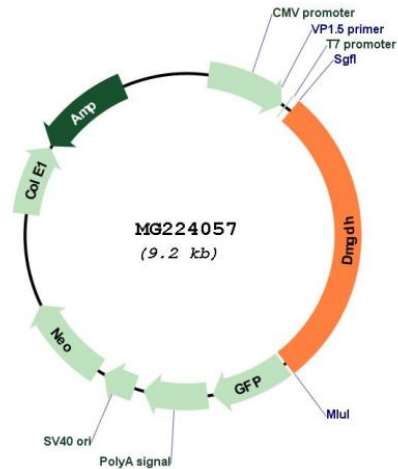
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 KPGQDTQYRPSFRRTNWFEPVGEYKQVMQRVGVIDLSPFGKFNKGRDSTQLLDHLFANVIPKVGFTNI
 SHMLTPRGRVYAELTVSQSPGEFLLITGSGSELHDLRWIEEAAFRGGYDVEIQNITDEFGLV GAGPYA
 RRVLQKL TSEDLSDDAFKFLQTKSFNISDIPVTAIRISYTGELGWELYHRREDSATLYERIMSAGQEEGI
 GDFGTALNALRLEKA FRAWGSEMNCNTNPLEAGLEYFVKLNKPADFIGKQALKQIKTEGLKRRLVCLTV
 ATDDVDPEGNESIWYKGVVGNNTSGSYSYSIQKSLAFAYVPVQLSEVGQQVEALLGKNYPATIIQEPL
 VLTEPARARLQKDGKKTNLEKGPSRTTKL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_028772

ORF Size: 2607 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.

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]