

## Product datasheet for **RR213839**

### Dmgdh (NM\_139102) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dmgdh (NM_139102) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dmgdh
Synonyms:	Me2GlyDH
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR213839 representing NM\_139102  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTCCGCCTGGGCGCCTCAGGCTGCGGGCCCTCGCGTCCGGAGCTCCAGGGGCGCCCAAGCTCCG  
 CCGGCCTCCGGGAAGGACAGGAAAGCCACCCTCACCCCAAGAATGGAAGGACAGAGCAGAGACTGTGAT  
 CATTGGAGGTGGCTGCGTGGGCGTGAGTCTGGCTTACCATCTGGCCAAGGCAGGGATGAGAGACGTGGTC  
 CTGTTGGAGAAGTCGGAACCTCACGGCTGGCTCTACCTGGCACGCAGCAGGTTTAACTACTTTCCACC  
 CCGGGATAAACTTGAAGAAGATACATTATGACAGCATCAAACCTTACGAGAGGCTGGAAGAAGAACTGG  
 ACAGGTGGTGGGTTCCATCAACCGGTAGTATCAGGCTTGCACAACTCCTGAAAGGTGGACGAATTT  
 AAATACCAATGACGCGAACCAACTGGCATGCCACCGAGCAGTATATTATTGAGCCCGAAAAATCCACG  
 AGCTGTTCCCTTACTCAACATGGACAAGATTTAGCCGGACTGTATAACCCGGGAGATGGCCACATCGA  
 TCCATATTCTCTGACGATGGCCCTGGCTACTGGAGCTAGGAAATATGGGGCCCTTCTAAAGTATCCTGCA  
 CCAGTGACATCTCTGAAGCCAGGCCAGATGGGACATGGGACGTGGAGACTCCGCAAGGATCTGTGAGAG  
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 GAAGGAACTTTTGTAGTCTGACTTAGACCGAATCACAGAGCACGTGGAAGCTGCCATGGAATGGTTCCT  
 GTTCTGAAAAAGCGGACATCATCAACATCGTCAACGGTCTATCACCTACTCTCCTGACATTCTGCCTA  
 TGGTGGGCCCCATCAGGGGGTCAGGAACTACTGGGTGGCCATTTGGCTTTGGATATGGCATAATCCACGC  
 CGGTGGGTCGGGACGTACCTCAGCGACTGGATCCTGCACGGAGAACCTCCCTTTGACCTGATAGAACTG  
 GATCCCAACCGCTACGGCAAGTGGACGACGACGAGTACACCGAGGCCAAAGCCGAGAATCATACGGGT  
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 AGTACAAACAGGTTATGCAAAGAGTTGGTGTGATTGACCTGTCTCCGTTTGGCAAGTTCAACATCAAAGG  
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 TGGCTATGATGTGAAATTCGAAACATAACCGATGAGCTTGGGGTCTGGGAGTAGCAGGGCCATATGCA  
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 TACTCACAGAACCTACCAGAACCAGGCTTCAAAAAGTGGTAGGAAATCT

**ACGGT**ACGGGCGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213839 representing NM\_139102  
Red=Cloning site Green=Tags(s)

MLRLGALRLRGLALRSSQGRPSSAGLREGQESPPSPPEWKDRAETVIIGGGCVGVS LAYHLAKAGMRDVV  
LLEKSELTAGSTWHAAGLTTYFHPGINLKKIHYDSIKLYERLEETGQVVGFHQPGSIRLATTPERVDEF  
KYQMTRTNWHATEQYIIIEPEKIHFLPLLNMKILAGLYNPGDGHIDPYSLTMALATGARKYGALLKYP  
PVTSLKPRPDGTWDVETPQGSVRANRIVNAAGFWAREVGMIGLDHPLIPVQHQYVITSTIPEVKALKRE  
LPVLRDLEGSYLRQERDGLLFGPYESQEKMKLQASWVAHGVPVPGFKELFESDLDRITEHVEAAMEMVP  
VLKKADIINIIVNGPITYSPDILPMVGP HQV RNYWVAIGFGYGI IHAGGVGTYLSDWILHGEPFDLIEL  
DPNRYGKWT TTYTEAKARESYGFNNIVGYPKEERFAGRPTQRVSGLYKILESKCSMGFHAGWEQPHWFY  
KPGQDTQYRPSFRRTNWFEPVGEYKQVMQRVGVIDLSPFGKFNKGGQDSTQLLDHLCANVIPKVGFTNI  
SHMLTPRGRVY AELTVSHQSPGEFLLITGSGSELHDLRWIEEA AVRGYDVEIRNITDELGVLGVAGPYA  
RRVLQKL TSEDLSDVFKFLQTKSLKISDIPVTAIRISYTGELGWELYHRREDS AALYERIMNAGQEEGI  
DNFGTYALNALRLEKAFRAWGSEMNC D T N P L E A G L D Y F I K L N K P A N F T G K Q A L K Q I K A K G L K R R L V C L T L  
ATDNVDPEGNESVWYKGVIGNTTSGSYSYSIQKSLAFAYVPVELSEVGQQVEVELLGKNYPATIIQEPL  
VLTEPTRRLQKDGKRS

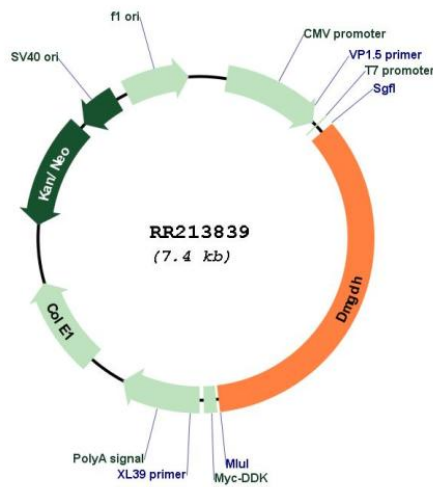
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



<b>ACCN:</b>	NM_139102
<b>ORF Size:</b>	2571 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_139102.2</a> , <a href="#">NP_620802.2</a>
<b>RefSeq Size:</b>	3011 bp
<b>RefSeq ORF:</b>	2574 bp
<b>Locus ID:</b>	245961
<b>Cytogenetics:</b>	2q12
<b>MW:</b>	96 kDa
<b>Gene Summary:</b>	Enzyme involved in choline catabolism [RGD, Feb 2006]