

Product datasheet for **MC217652**

Phgdh (NM_016966) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phgdh (NM_016966) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Phgdh
Synonyms:	3-PGDH; 3PGDH; 4930479N23; A10; PGAD; PGD; PGDH; SERA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217652 representing NM_016966
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTTCGCAATCTGCGCAAAGTACTCATCAGTGACAGCCTGGACCCCTGCTGCCGGAAGATCCTGC
 AAGATGGAGGGCTGCAGGTGGTGGAGAAGCAGAACTTGAGCAAGGAGGAGCTGATAGCTGAACTCCAGGA
 CTGTGAAGGCCTCATTGTCCGGTCTGCTACTAAGGTCAGTCTGATGTCATCAATGCAGCAGAGAAGCTC
 CAGGTGGTGGCAGGGCTGGCACAGGTGTGGCAATGTGGATCTGGAGGCTGCCACGAGGAAGGGCATCC
 TAGTCATGAACACCCCCAACGGGAACAGCCTCAGTCTGCGGAGCTCACCTGTGGGATGATCATGTGCCCT
 GGCCAGGCAGATCCCCAGGCAACAGCTTCGATGAAAGATGGCAAATGGGACCGGAAGAAGTTCATGGGG
 ACAGAAGTGAACGGGAAGACTGGGAATCTTGGCCTCGGCAGAATTGGAAGAGAGGTGGCCACCCGAA
 TGCAATCCTTTGGAATGAAGACTGTAGGCTATGACCCCATCATCTCTCTGAAGTCGCCCTCCTTTGG
 TGTTTCAGCAGCTGCCGCTGGAGGAGATCTGGCCTCTCTGTGACTTTATAACTGTCCATACCCCACTCTG
 CCCTCTACCACAGGCTTGTGAATGACAGCACCTTTGCTCAGTGAAGAAAGGTGTGCGAGTAGTGAAGT
 GTGCTCGAGGAGGCATTGTGGATGAAGGTGCCCTGCTGCGTGCCCTGCAGTCTGGTCAGTGTCTGGGGC
 TGCACTGGATGTGTTACAGAAGAGCCACCACGGGACCGGCCTTAGTGGACCACGAGAATGTCATCAGC
 TGTCCCCACCTGGGTGCCAGCACCAAGGAAGCCAGAGCCGCTGTGGGGAGGAAATCGCAGTCCAGTTTG
 TGGACATGGTGAAGGGGAAATCTCTAACAGGCGTTGTGAACGCCAGGCCCTCACCAAGTGCCTTCTCTCC
 ACACACCAAGCCTTGATTGGTCTGGCAGAAGCAATGGGCACGCTGATGCACGCCTGGGCTGGCTCCCCT
 AAAGGGACCATCCAGGTGGTTACACAAGGAACATCTCTGAAGAATGCTGGGACCTGCCTGAGCCCTGCAG
 TCATTGTCCGGCCTCTGAGAGAAGCATCTAAGCAGGCAGACGTGAAGTGGTGAACGCTAAGCTACTGGT
 GAAAGAGGCTGGCCTCAATGTCAACACCTCCACAAACCCTGGGGTTCAGGGGAGCAGGGTAGCGGGGAA
 TGCCCTCTGACTGTGGCCTGGCAGGTGCTCCCTACCAAGCCGTGGGCTTGGTCCAGGGCACCACACCAA
 TGCTGCAGATGCTCAACGGAGCTGTCTTCAGACCAGAGGTGCCACTACGCAGGGGCCAACCCCTGCTCGT
 ATTCCGGGCTCAGCCCTCCGACCCTGGGATGCTGCCCACTATGATTGGCCTCCTGGCAGAGGCGGGTGA
 CAGCTGCTGTCTACAAACCTCCATGGTGTCTGACGGAGAGCCCTGGCACGTATGGGCTGTCTCTCC
 TGCTGCCAGCCTGGAACATGGAAGCAGCATGTATTGGAGGCTTCCAGTCTGCTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_016966

Insert Size: 1602 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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:	<u>NM_016966.3</u> , <u>NP_058662.2</u>
RefSeq Size:	1871 bp
RefSeq ORF:	1602 bp
Locus ID:	236539
UniProt ID:	<u>Q61753</u>
Cytogenetics:	3 F2.2
Gene Summary:	Catalyzes the reversible oxidation of 3-phospho-D-glycerate to 3-phosphonoxyppruvate, the first step of the phosphorylated L-serine biosynthesis pathway. Does not catalyze the reversible oxidation of 2-hydroxyglutarate to 2-oxoglutarate and the reversible oxidation of (S)-malate to oxaloacetate.[UniProtKB/Swiss-Prot Function]