

Product datasheet for **RN206378**

Phgdh (NM_031620) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phgdh (NM_031620) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Phgdh
Synonyms:	MGC105399
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN206378 representing NM_031620
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTTCGCAATCTGCGCAAAATACTCATCAGTGATAGCCTCGACCCTGCTGCCGGAAGATCCTGC
 AAGATGGAGGGCTGCAGGTGGTGGAGAAGCAGAACTTGAGCAAGGAGGAGCTGATAGCCGAATCCAGGA
 CTGTGAAGGCCTTATCGTCCGGTCAGCTACTAAGGTCACTGCTGATGTCATCAATGCAGCAGAGAAGCTC
 CAGGTGGTGGCAGGGCTGGTACAGGCGTGGCAATGTGGATCTGGAGGCTGCCACAAGGAAGGGCGTCC
 TCGTCATGAACACCCCAATGGAAATAGCCTCAGTGTGCGGAACTCACCTGTGGGATGCTCATGTGCCCT
 GGCCAGGCAGATCCCCAGGCGACGGCTTCGATGAAAGATGGCAATGGGACCGGAAGAAGTTCATGGGG
 ACAGAGCTGAACGGGAAGACACTGGGAATTCCTGGCCTGGGCAGAATTGGAAGAGAGGTGGCCGCCCGAA
 TGCAGGCCCTTTGGAATGAAGACTGTAGGCTATGACCCCATCATTCTCCAGAAGTCGCTGCCTCCTTTGG
 TGTTTCAGCAGCTGCCGCTAGAGGAGATCTGGCCTCTCTGTGATTCATCACTGTCCATACCCCGCTCCTG
 CCCTCCACTACAGGCTTGCTCAATGACAGCACCTTTGCCAGTGAAGAAAGGCGTGCAGGCTGGTGAAT
 GTGCTCGAGGAGGCATTGTGGATGAAGGTGCCCTGCTCCGTGCCCTGCAGTCTGGTCAGTGTGCTGGTGC
 TGCACTGGATGTGTTACAGAAGAGCCACCACGGGACCGGCCTTAGTGGACCACGAGAAGCTCATCAGC
 TGTCCCCACCTGGGCGCCAGCACCAAGGAGGCCAGAGCCGCTGTGGGGAGGAAATCGCAGTCCAGTTTG
 TGGACATGGTGAAGGGGAAATCTCTAACAGGGTTGTAACGCCAGGCTCTTACCAGTGCCTTCTCTCC
 ACACACCAAGCCTTGATTGGTCTGGCAGAAGCATTGGGCACACTGATGCACGCCTGGGCTGGCTCCCCT
 AAAGGGACCATCCAGGTGGTGCACAAGGAACATCTCTGAAGAATGCTGGGACCTGCCTGAGCCCTGCGG
 TCATTGTGCGCCTTCTGAGAGAAGCATCAAACAGGCAGATGTGAACTTGGTGAACGCTAAGCTACTGGT
 GAAAGAGGCTGGCCTCAATGTCAACACCTCCACAGTCCTGGTGTCCAGGAGAGCAGGGCATCGGGGAA
 TGCCCTCTGACTGTGGCCTTGGCAGGTGCTCCCTACCAAGCTGTGGGCTTGGTCCAGGGCACACACCAA
 TGTTGCAGATGCTCAACGGAGCTGTCTTCAGGCCAGAGGTGCCTCTACGCAGGGGCCAGCCCTGCTCCT
 GTTCCGGGCTCAGCCCTCCGACCCTGTCATGCTGCCACTATGATCGGCCTACTGGCAGAGGCGGGGTA
 CAGCTGCTGTCTACCAGACCTCAAGGTGTCTGACGGAGACACTTGGCACGTCATGGGCCCTCTCTCC
 TACTGCCAGCCTGGACGCATGGAAGCAGCATGTTTCTGAGGCTTCCAGTCTGCTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_031620
- Insert Size:** 1602 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:

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_031620.1](#), [NP_113808.1](#)

RefSeq Size: 1803 bp

RefSeq ORF: 1602 bp

Locus ID: 58835

UniProt ID: [O08651](#)

Cytogenetics: 2q34

Gene Summary: catalyzes the transition of 3-phosphoglycerate into 3-phosphohydroxypyruvate and did not catalyse the reduction of 2-oxoglutarate [RGD, Feb 2006]