

Product datasheet for **MR203358**

Bpgm (NM_007563) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bpgm (NM_007563) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Bpgm
Synonyms: AI323730; AL022789; C86192
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR203358 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCAAGCACAACTTATTATACTAAGACATGGAGAGGGCCAATGGAATAAGGAGAACCGATTCTGTA
GTTGGGTGGACCAGAACTTAACAACGACGGACTGGAGGAGGCTCGAACTGTGGGAGGCAGCTCAAAGC
TCTCAACTTCGAGTTTGATCTTGTCTTCACATCCATCCTAACAGGTCCATTCACACAGCCTGGCTGATC
CTGGAAGAGCTGGGCAGGAGTGGGTGCCTGTGGAGAGCTCCTGGCGTCTGAATGAGCGTCACTATGGAG
CCTTGATTGGCCTCAACAGGGAGAAAATGGCTTTGAATCATGGTGAAGAGCAGGTAAAGGCTCTGGAGGAG
AAGCTACAACGTGACCCACCTCTATAGAGGAGTCTCATCCCTACTTCCACGAGATCTACAGTGACCGG
AGGTACAAAGTGTGCGATGTGCCCTTGGACCAACTGCCACGTTTCAGAAAGCTTGAAGGATGTTCTGGAGA
GACTTCTCCCTACTGGAAGGAAAGGATTGCTCCGAAATCTTAAAGGGCAAAGCATTCTGATATCTGC
TCACGGGAATAGCAGTAGAGCTCTCCTGAAACATCTGGAAGGTATCTCAGACGAGGATATTATCAACATC
ACTCTGCCACTGGAGTTCGGATTCTGCTGGAGTTGGATGAGAACCTGCGTGCCGTTGGGCTCACCAGT
TCCTGGCAACCAGGAGGCCATCCAGGCAGCCATTAAGAAAGTGGATGATCAAGGAAAGTGAACAAGG
CAAACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR203358 protein sequence
 Red=Cloning site Green=Tags(s)

MSKHKLIILRHGEGQWNKENRFCSWVDQKLNNDGLEEARNCGRQLKALNFEFDLVFTSILNRSIHTAWLI
 LEELGQEWVPVESSWRLNERHYGALIGLNREKMALNHGEEQVRLWRRSYNVTPPPTEESHPYFHEIYSDR
 RYKVC DVPLDQLPRSESLKDVLERLLPYWKERI APEILK GK SILISAHGNSRALLKHLEGISDEDIINI
 TLPTGVPILLELDENLRAVGP HQFLGNQEA IQAAIKKVDDQ GKVKQ GKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007563

ORF Size: 780 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_007563.1](#), [NM_007563.2](#), [NM_007563.3](#), [NM_007563.4](#), [NP_031589.1](#)

RefSeq Size: 2068 bp

RefSeq ORF: 780 bp

Locus ID: 12183

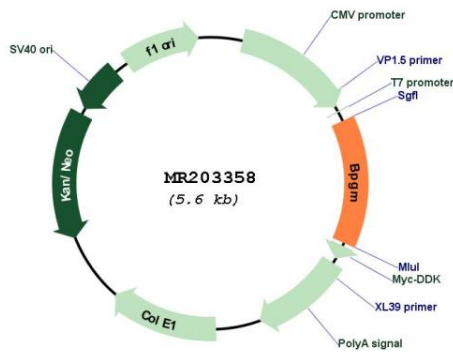
UniProt ID: [P15327](#)

Cytogenetics: 6 B1

MW: 30 kDa

Gene Summary: Plays a major role in regulating hemoglobin oxygen affinity by controlling the levels of its allosteric effector 2,3-bisphosphoglycerate (2,3-BPG). Also exhibits mutase (EC 5.4.2.11) activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203358