

Product datasheet for **MG203358**

Bpgm (NM_007563) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bpgm (NM_007563) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bpgm
Synonyms:	A1323730; AL022789; C86192
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203358 representing NM_007563 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCAAGCACAACTTATTATACTAAGACATGGAGAGGGCCAATGGAATAAGGAGAACCGATTCTGTA
GTTGGGTGGACCAGAACTTAACAACGACGGACTGGAGGAGGCTCGAACTGTGGGAGGCAGCTCAAAGC
TCTCAACTTCGAGTTTGATCTTGCTTTCACATCCATCCTAACAGGTCCATTCACACAGCCTGGCTGATC
CTGGAAGAGCTGGGCAGGAGTGGTGCCTGTGGAGAGCTCCTGGCGTCTGAATGAGCGTCACTATGGAG
CCTTGATTGGCCTCAACAGGGAGAAAATGGCTTTGAATCATGGTGAAGAGCAGGTAAAGGCTCTGGAGGAG
AAGCTACAACGTGACCCACCTCTATAGAGGAGTCTCATCCCTACTTCCACGAGATCTACAGTGACCGG
AGGTACAAAGTGTGCGATGTGCCCTTGGACCAACTGCCACGTTTCAGAAAGCTTGAAGGATGTTCTGGAGA
GACTTCTCCCTACTGGAAGGAAAGGATTGCTCCGAAATCTTAAAGGGCAAAGCATTCTGATATCTGC
TCACGGGAATAGCAGTAGAGCTCTCCTGAAACATCTGGAAGGTATCTCAGACGAGGATATTATCAACATC
ACTCTGCCCACTGGAGTTCGATTCTGCTGGAGTTGGATGAGAACCTGCGTGCCGTTGGGCTCACCAGT
TCCTGGCAACCAGGAGGCCATCCAGGCAGCCATTAAGAAAGTGGATGATCAAGGAAAGTGAACAAGG
CAAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203358 representing NM_007563
 Red=Cloning site Green=Tags(s)

MSKHKL IILRHGEGQWNKENRFCSWVDQKL NNDGLEEARNCGRQLKALNFEFDLVFTSILNRSIHTAWLI
 LEELGQEWVPESSWRLNERHYGAL IGLNREKMALNHGEEQVRLWRRSYNVTPPP IEE SHPYFHEIYSDR
 RYKVC D VPLDQLPRSESLK D VLERLLPYWKERIAPEILK GKSILISAHGNSRRALLKHLEGISDEDIINI
 TLPTGVPILLELDENLRAVGPHQFLGNQEA IQAAIKKVD D QGKVKQ GKQ

TRTRPLE - GFP Tag - V

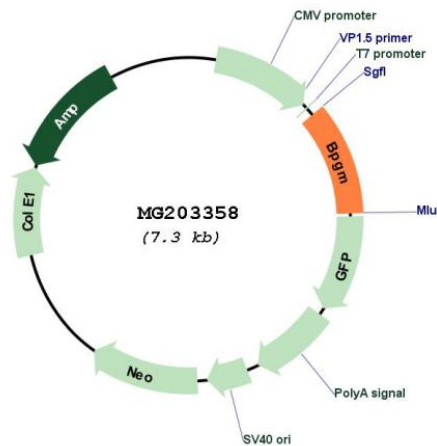
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_007563

ORF Size: 777 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:	<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:	NM_007563.2 , NP_031589.1
RefSeq Size:	2069 bp
RefSeq ORF:	780 bp
Locus ID:	12183
UniProt ID:	P15327
Cytogenetics:	6 B1
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]