

Product datasheet for **MC217281**

G6pd2 (NM_019468) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G6pd2 (NM_019468) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	G6pd2
Synonyms:	G6pdx-ps1; Gpd-2; Gpd2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217281 representing NM_019468
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGAGCAGGTGACCCTAAGCCGGACCCAAGTGTGTGGGATCCTGAGGGAAGAGTTGTACAAAATG
 ATGCCTTCCACCAAGCTGATACACACATATTTATCATCATGGGTGCATCGGGTGACCTGGCCAAGAAGAA
 GATCTATCCCACCATCTGGTGGCTGTTCCGGGATGGTCTTCTACCCAAAGAAACCTTCATTGTGGGCTAT
 GCCCGCTCACAACCTCACAGTGGATGACATCCAAAAGCAGAGTGAGCCCTTCTTTAAGGCCACTCCAGAAG
 AAAGACCCAAGCTGGAGGAGTTCTTACGCGTAACTCCTATGTAGTTGGCCAGTATGATGATCCAGCCTC
 CTATAAGCACCTCAACAGCTACATTAATGCCCTGCACCAGGGGATGCAGGCCAACCATCTATTCTACCTG
 GCCTTGCCCCCAGCTCTATGAAGCAGTCACCAAGAACATTCAAGAGACCTGCATGAGTCAGACAGGCT
 TTAACCGCATCATAGTGGAGAAACCTTCGGGAGAGACCTGCAGAGCTCAATCAATTGTCTAACCAT
 CTCCTCTCTTTCCGTGAAGACCAGATCTACCGCATTGACCACTACCTGGACAAAGAGATGGTCCAGAAC
 CTCATGGTGTGAGGTTTGCTAACAGGATCTTTGGCCCTATCTGGAATGGAGACAACATTGCTTGTGTGA
 TCCTCACATTTAAGAGCCCTTTGGTACTGAGGGTCTGGGGGCTATTTTGATGAATTTGGGATCATCAG
 GGATGTTATGCAGAGCCACCTCCTGCAGATGTTGTGTCTGGTGGCCATGGAAAAGCCTGTACCACAGAT
 TCAGATGATGTCCGTAATGAGAAGGTCAAAGTGTGAAACGTATCTCAGAGGTGGAAACTGACAAATGTGA
 TCCTTGGCCAGTATGTGGGAACCCCAATGGAGAAGGAGAAGCTGCCAATGGATACTTAGATGACCCAC
 AGTACCCCGTGGGTCCACAACCTGCCACCTTTGCTGCAGCTGTCTCTATGTGAAGAATGAACGGTGGGAT
 GGGGTACCTTTCATACTGCGCTGTGGCAAAGCCCTGAATGAACGCAAAGCTGAAGTGAGACTGCAATTCC
 GAGATATACCAGGCGACATCTTCCACCAGAAGTGCAAGCGTAATGAGCTGGTCAATCCGTATGCAGCCCAA
 TGAGGCAGTATACACAACGATGATGACCAAGAAGCCTGGCATGTTCTTTAACCCCTGAGGAGTCGGAGCTG
 GACCTAACTTATGGCAACAAATACAAGAATGTGAAGCTCCCTGGTGCCTATGAACGCCTCATCTGGATG
 TCTTCTGTGGGTGCCAGATGCACTTTGTCCGTACTGATGAACTCAGGGAAGGCTGGCGTATCTTACACC
 ACTGCTGCACAAGATTGAACGAGAAAAGCCCCAGCCCTTCCCCTATGTATATGGCAGCCGTGGCCCCACA
 GAGGCAGATGAGCTGATGAGGAGAGTGGGCTTCCAGTACAAGGGTACCTACAAGGGTACTACAAGCACT
 GA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_019468

Insert Size: 1542 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_019468.2](#), [NP_062341.2](#)

RefSeq Size: 1635 bp

RefSeq ORF: 1542 bp

Locus ID: 14380

UniProt ID: [P97324](#)

Cytogenetics: 5 31.99 cM

Gene Summary: Catalyzes the rate-limiting step of the oxidative pentose-phosphate pathway, which represents a route for the dissimilation of carbohydrates besides glycolysis. The main function of this enzyme is to provide reducing power (NADPH) and pentose phosphates for fatty acid and nucleic acid synthesis.[UniProtKB/Swiss-Prot Function]