

## Product datasheet for **MC221722**

### **H6pd (NM\_173371) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	H6pd (NM_173371) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	H6pd
Synonyms:	A1785303; G6pd1; Gpd-1; Gpd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221722 representing NM\_173371  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGCACACAGGCATTTGGAAGATGCTCCTAGCGGCAATGTGCTTGGCCCTTCTGGGCTGCCTACAGG  
 CGCAGGAACTCAAGGGTCATGTTCCATAATCCTGCTGGGAGCAACCGGGGACCTAGCTAAAAAGTACCT  
 GTGGCAGGGACTGTTTCAGCTATACCTGGATGAGGCTGGGAAGGGCCACAGTTTCAGCTTCCACGGTGCT  
 GCCCTGACAGCCCCCAGCAAGGCCAGAAGCTCATGGACAAGGTCTTGAATCCCTCTCCTGTCCCAAGG  
 ACTTGGTACCCAGTCGCTGTGATGAACTCAAGGGTCAGTTTCTACAGCTGAGCCAATACCGCCAGCTGAA  
 GACAGTGGAGGACTATCAGACCCTCAACAAGGATATTGAGACCCAGGTCCAGCAGGATGGGCTCTGGGAG  
 GCAGGCAGGATCTTCTACTTCAGTGTGCCGCCCTTGCCTACGCAGACATTGCCCGTAACATCAACAGCA  
 GCTGCCGACCACCCAGGTGCCTGGCTACGGGTTGTTTTGAAAAACCTTTGGCCATGACCACCTCTC  
 AGCCCAGCAGCTGGCTTCAGAACTTGGGAGCTTTTTCCAGGAGGAGAGATGTACCGTGTGGATCATTAC  
 CTGGCAAGCAGGCGGTGGCTCAGATCCTGCCCTTCCGAGATCAGAACCAGCAAGGCTTGGATGGCTCT  
 GGAACAGGCACCATGTGGAGCGGGTGGAGATCATCTTGAAGGAGACCATAGATGCCGAAGGTCCGGCCAG  
 TTTCTATGAGGAGTATGGCGTCATCCGTGACACGCTGCAGAACCACCTGACTGAGATCCTCACGCTGGTG  
 GCCATGGAAGTGCCTCTCAACATCAGCAGCTCAGCCGCGGTGCTCCAGCATAAGCTCTGGGCCTTCCAGG  
 CCCTGCGGGGGCTGCAGAAGAGCAGTGCCATCCTGGGCCAGTACCAGGCCACAGCGGACAGGTGCGCCG  
 AGAGCTGCAGAAGCCAGACGGCTTCCAGAGCCTGACACCAACCTTCGCAGGTGTCCTTGTCCACATCGAC  
 AACCTGCGCTGGGAGGGTGTCCCTTTCATCCTGATGCTGGCAAGGCCTTGGATGAGAGAGTGGGCTATG  
 TTCGGATTGTGTTAAGAATCGGGCGTACTGCACCCAGAGCGAGAGACTGGGTCCCGGAGCAGAGCCG  
 GTGCCTGCCCCAGCAGATTATCTTCTACATTGGACACGGTGAGCTGGGCCACCCTGCCATTCTGGTCAGC  
 CGGAACCTGTTCAAACCCTCACTACCCACTCAGAAGTGAAGGAGGTGCAGGACCAGCCTGGGCTCCGCC  
 GTTTCGGCCGCTCTGTCTGATTACTACGCCTACAGGCCTGTGCGGGAGCAAGACGCCTACTCCACCCT  
 CCTGTGCGACATCTTCCACTGCCGAAAGGAGTCTTTCATCACCACAGAGAACCTTGTGCCCTCTGGGTC  
 TTCTGGACCCCGTTACTGGACAGCCTGGCCTTGAAGTTCACGCCCATAACCCAGGGGGAGCCGAGAATG  
 GCCAGTCTGGACTTTGAGTTTAGCGGTGGTCAGCTGACCTTCTCCAGCAGCAGCTGGAGGTGCTGAT  
 ACCAGATCTAGGCTCAGTCCCAAAGCCAGTGACTTCCAGGTCTCGGGGCCGGTATAGACAGAGCCCA  
 CTGATTACCGCTGGCCAGAGGAGCTGATCTTAAGCTGGCCAGTGACATTGAAGCCGCCGGTGCAGG  
 CAGTACGGCACTTCGGCAAGTCCACCTGGCACTGTGAGGTGGTTCGAGGCCCATAGCTCTTCCAGCA  
 GCTGGCCACAGGACATTACAGCTTCCCCTGGGCCACACACACCTCTGGCTGGTTGATGAGCGTTGTGTC  
 CCTCTCTCAGATCCAGACTCCAACCTCCAGGGCCTGCAGGCTCACCTGCTACAGCACGTCAGGGTACCCT  
 ACTACAACATCCACCCGATGCCAGTGCACCTGCACCAGCGGCTCTGTGCCGAGGAGGACCAGGGAGCTCA  
 GACCTATGCCAGTGAGATCTCAGCCCTGGTGGCCAACAGCAGCTTCGACCTGGTGTCTCTGGGCATGGGC  
 ACCGACGGGCACACAGCTTCTCTGTTCCACAGTCCCCACAGGCCTGGATGGTGTGATCAGCTGGTGGTGC  
 TGACGGAGAGCCCGTTCCAGGCCACCAACGCATGAGCCTCAGCCTGCCCTCATCAACCCAGCCAAGAA  
 GGTAGCTGTCTGGTTCATGGGCAGGACAAAACGTGAGATCACAACGTTGGTGAGCCGCGTGGGCCATGAA  
 CCAAGAAGTGGCCATCTCAGGTGTGGTGCCTTTCTGGGCAGCTGGTTTGGTACATGGATTACGAGG  
 CCTTTCTGGGATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_173371  
**Insert Size:** 2394 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_173371.4</a> , <a href="#">NP_775547.2</a>
<b>RefSeq Size:</b>	4746 bp
<b>RefSeq ORF:</b>	2394 bp
<b>Locus ID:</b>	100198
<b>UniProt ID:</b>	<a href="#">Q8CFX1</a>
<b>Cytogenetics:</b>	4 80.65 cM
<b>Gene Summary:</b>	Oxidizes glucose-6-phosphate and glucose, as well as other hexose-6-phosphates. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).