

## Product datasheet for **MC220870**

### H6pd (BC042677) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	H6pd (BC042677) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	H6pd
Synonyms:	A1785303; G6pd1; Gpd-1; Gpd1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC042677  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTCCTAGCGCAATGTGCTTGGCCCTTCTGGGCTGCCTACAGGCGCAGGAACAAGGGTCATGTTT  
 CCATAATCCTGCTGGGAGCAACCGGGGACCTAGCTAAAAAGTACCTGTGGCAGGGACTGTTTCAGCTATA  
 CCTGGATGAGGCTGGGAAGGGCCACAGTTTCAGCTTCCACGGTGTGCCCTGACAGCCCCCAGCAAGGC  
 CAGAAGCTCATGGACAAGGCCTTGAATCCCTCTCCTGTCCCAAGGACTTGGTACCCAGTCGCTGTGATG  
 AACTCAAGGGTCAGTTTCTACAGCTGAGCCAATACCACCAGCTGAAGACAGTGGAGGACTATCAGACCTT  
 CAACAAGGATATTGAGACCCAGGTCCAGCAGGATGGGCTCTGGGAGGCAGGCAGGATCTTCTACTTCAGT  
 GTGCCGCCCTTTGCTACGCAGACATTGCCCGTAACATCAACAGCAGCTGCCACCACCCAGGTGCCCT  
 GGCTACGGGTTGTTTTGAAAAACCTTTGGCCATGACCACCTCTCAGCCCAGCAGCTGGCTTCAGAACT  
 TGAAGCTTTTTCCAGGAGGAGGATGTACCGTGTGGATCATTACCTCGCAAGCAGGCGGTGGCTCAG  
 ATCCTGCCCTTCCGAGATCAGAACCGAAGGCCTTGGATGGCCTCTGGAACAGGCACCATGTGGAGCGGG  
 TGGAGATCATTTTGAAGGAGACCATAGATGCGGAAGGTGCGGCCAGTTTCTATGAGGAGTATGGCGTCAT  
 CCGTGACACGCTGCAGAACCACCTGACTGAGATCCTCACGCTGGTGGCCATGGAAGTGCCTCAACATC  
 AGCAGCTCAGCCACCGTCTCCAGCATAAGCTCTGGGCCCTCCAGGCCCTGCGGGGGCTGCAGAAGAGCA  
 GTGCCATCCTGGGCCAGTACCAGGCCTACAGCGGACAGGTGCGCCGAGAGCTGCAGAAGCCAGACGGCTT  
 CCAGAGCCTGACCAACCTTCGAGGTGTCCTTGTCCACATCGACAACCTGCGTTGGGAGGGTGTCCCT  
 TTCATCCTGATGCTGGCAAGGCCTTGGATGAGAGAGTGGGCTATGTTTCGATTGTGTTTAAAGATCGGG  
 CGTACTGCACCCAGAGCGAGAGACTGGGTGCCGGAGCAGAGCCGGTGCCTGCCCCAGCAGATTATCTT  
 CTACATTGGACACGGTGAGCTGGGCCACCTGCCATTCTGGTCAGCCGGAACCTGTTCAAACCTCACTA  
 CCCACTCAGAAGTGAAGGAGGTGCAGGACCAGCCTGGGCTCCGCCTGTTTCGCGCTCCTCTGTCTGATT  
 ACTACGCCTACAGGCCTGTGCGGGAGCAAGACGCCTACTCCACCCTCCTGTGACACATCTTCCACTGCCG  
 AAAGGAGTCCTTCATCACCACCGAGAACCTCTTGGCCTCCTGGGTCTTCTGGACCCGTTACTGGACAGC  
 CTGGCCTTTGAAGTTCACGCCCGTACCAGGGGGAGCCGAGAATGGCCAGCTGCTGGACTTCGAGTTTA  
 GCGGTGGTCAGCTGACCTTCTCCAGCAGCAGCTGGAGGTGCTGATACCAGATCTAGGCTCAGTCCCAA  
 GCCCAGTACTTCAGGTCTCGGGGCCCGGTATAGACAGAGCCACTGATTACCGCTGGCCAGAGGAG  
 CTGATCTCTAAGCTGGCCAGTGACATTGAAGCCGCGCGGTGCAGGCGGTACGGCACTTCGCAAGTTCC  
 ACCTGGCACTGTGAGGTGGTTCGAGCCCATAGCTCTCTTCCAGCAGCTGGCCACAGGGCATTACAGCTT  
 CCCCTGGGCCACACACCTCTGGCTGGTTGATGAGCGCTGTGTCCCTCTCTCAGATCCAGACTCCAAC  
 TTCCAGGGCCTGCAGGCTCACCTGCTACAGCACGTGAGGGTACCCTACTACAACATCCACCAATGCCAG  
 TGCACCTGCACCAGCGGCTCTGTGCCGAGGAGACCAGGGAGCTCAGACCTATGCCAGTGAGATCTCAGC  
 CCTGGTGGCCAACAGCAGCTTCGACCTGGTGTCTCTGGCATGGGCACCGACGGGCACACGGCTTCTCTG  
 TTCCCACAGTCCCCACAGGCCTGGATGGTGATCAGCTGGTGGTGTGACGGAGAGCCGTTTCAGGCCAC  
 ACCAACGCATGAGCCTCAGCCTGCCCTCATCAACCGAGCCAAGAAGGTAGCTGTCTGGTCATGGGCAG  
 GACAAAACGTGAGATCACAACGTTGGTGAGCCGCGTGGCCATGAACCAAGAAGTGGCCCATCTCAGGT  
 GTGGTGCCTCTTCTGGGCAGCTGGTTTGGTACATGGATTACGAGGCCTTTCTGGGATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul  
 ACCN: BC042677  
 Insert Size: 2370 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="#">BC042677</a> , <a href="#">AAH42677</a>
<b>RefSeq Size:</b>	4583 bp
<b>RefSeq ORF:</b>	2369 bp
<b>Locus ID:</b>	100198
<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]