

Product datasheet for **MC228938**

H6pd (NM_001291004) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H6pd (NM_001291004) 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: >MC228938 representing NM_001291004
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTCCTAGCGCAATGTGCTTGGCCCTTCTGGGCTGCCTACAGGCGCAGGAACAAGGGTCATGTTT
 CCATAATCCTGCTGGGAGCAACCGGGACCTAGCTAAAAAGTACCTGTGGCAGGGACTGTTTCAGCTATA
 CCTGGATGAGGCTGGGAAGGGCCACAGTTTCAGCTTCCACGGTGTGCCCTGACAGCCCCCAGCAAGGC
 CAGAAGCTCATGGACAAGGTCTTGAATCCCTCTCCTGTCCCAAGGACTTGGTACCCAGTCGCTGTGATG
 AACTCAAGGGTCAGTTTCTACAGCTGAGCCAATACCGCCAGCTGAAGACAGTGGAGGACTATCAGACCTT
 CAACAAGGATATTGAGACCCAGGTCCAGCAGGATGGGCTCTGGGAGGCAGGCAGGATCTTCTACTTCAGT
 GTGCCGCCCTTTGCTACGCAGACATTGCCCGTAACATCAACAGCAGCTGCCACCACCCAGGTGCCCT
 GGCTACGGGTTGTTTTGAAAAACCTTTGGCCATGACCACCTCTCAGCCCAGCAGCTGGCTTCAGAACT
 TGGGAGCTTTTTCCAGGAGGAGGATGTACCGTGTGGATCATTACCTCGCAAGCAGGCGGTGGCTCAG
 ATCCTGCCCTTCCGAGATCAGAACCGAAGGCCTTGGATGGCCTCTGGAACAGGCACCATGTGGAGCGGG
 TGGAGATCATCTTGAAGGAGACCATAGATGCGGAAGGTGCGGCCAGTTTCTATGAGGAGTATGGCGTCAT
 CCGTGACACGCTGCAGAACCACCTGACTGAGATCCTCACGCTGGTGGCCATGGAAGTGCCTCAACATC
 AGCAGCTCAGCCGCCGTGCTCCAGCATAAGCTCTGGGCCCTCCAGGCCCTGCGGGGGCTGCAGAAGAGCA
 GTGCCATCCTGGGCCAGTACCAGGCCTACAGCGGACAGGTGCGCCGAGAGCTGCAGAAGCCAGACGGCTT
 CCAGAGCCTGACCAACCTTCGAGGTGTCCTTGTCCACATCGACAACCTGCGCTGGGAGGGTGTCCCT
 TTCATCCTGATGCTGGCAAGGCCTTGGATGAGAGAGTGGGCTATGTTTCGATTGTGTTAAGAATCGGG
 CGTACTGCACCCAGAGCGAGAGACTGGGTGCCGGAGCAGAGCCGGTGCCTGCCCCAGCAGATTATCTT
 CTACATTGGACACGGTGTAGCTGGGCCACCTGCCATTCTGGTCAGCCGGAACCTGTTCAAACCTCACTA
 CCCACTCAGAAGTGAAGGAGGTGCAGGACCAGCCTGGGCTCCGCCTGTTTCGGCCGTCCTGTCTGATT
 ACTACGCCTACAGGCCTGTGCGGGAGCAAGACGCCTACTCCACCCTCCTGTGCGACATCTTCCACTGCCG
 AAAGGAGTCCTTCATCACCACAGAGAACCTCTTGGCCTCCTGGGTCTTCTGGACCCGTTACTGGACAGC
 CTGGCCTTTGAAGTTCACGCCCATACCCAGGGGGAGCCGAGAATGGCCAGCTGCTGGACTTTGAGTTTA
 GCGGTGGTCAGCTGACCTTCTCCAGCAGCAGCTGGAGGTGCTGATACCAGATCTAGGCTCAGTCCCAA
 GCCCAGTGACTTCAGGTCTCGGGGCCCGGTATAGACAGAGCCACTGATTACCGCCTGGCCAGAGGAG
 CTGATCTCTAAGCTGGCCAGTGACATTGAAGCCCGCGGTGCAGGCAGTACGGCACTTCGGCAAGTTCC
 ACCTGGCACTGTGAGGTGGTTCGAGCCCATAGCTCTCTTCCAGCAGCTGGCCACAGGACATTACAGCTT
 CCCCTGGGCCACACACCTCTGGCTGGTTGATGAGCGTTGTGTCCCTCTCTCAGATCCAGACTCCAAC
 TTCCAGGGCCTGCAGGCTCACCTGCTACAGCACGTGAGGGTACCCTACTACAACATCCACCCGATGCCAG
 TGCACCTGCACCAGCGGCTCTGTGCCGAGGAGACCAGGGAGCTCAGACCTATGCCAGTGAGATCTCAGC
 CCTGGTGGCCAACAGCAGCTTCGACCTGGTGTCTCTGGGCATGGGCACCGACGGGCACACAGCTTCTCTG
 TTCCCACAGTCCCCACAGGCCTGGATGGTGTGATCAGCTGGTGGTGTGACGGAGAGCCCGTTCAGGCCAC
 ACCAACGCATGAGCCTCAGCCTGCCCTCATCAACCGAGCCAAGAAGGTAGCTGTCTGGTCATGGGCAG
 GACAAAACGTGAGATCACAACGTTGGTGTGAGCCCGTGGCCATGAACCAAGAAGTGGCCCATCTCAGGT
 GTGGTGCCTCTTCTGGGCAGCTGGTTTGGTACATGGATTACGAGGCCTTTCTGGGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001291004
Insert Size: 2370 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001291004.1</u> , <u>NP_001277933.1</u>
RefSeq Size:	4678 bp
RefSeq ORF:	2370 bp
Locus ID:	100198
UniProt ID:	<u>Q8CFX1</u>
Cytogenetics:	4 80.65 cM
Gene Summary:	<p>Oxidizes glucose-6-phosphate and glucose, as well as other hexose-6-phosphates. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream start codon, compared to variant 1. It encodes isoform 2, which has a shorter N-terminus, compared to isoform 1.</p>