

Product datasheet for **MG221672**

H6pd (NM_173371) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H6pd (NM_173371) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	H6pd
Synonyms:	A1785303; G6pd1; Gpd-1; Gpd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221672 representing NM_173371
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGCACACAGGCATTTGGAAGATGCTCCTAGCGGCAATGTGCTTGGCCCTTCTGGGCTGCCTACAGG
 CGCAGGAACTCAAGGGTCATGTTTCCATAATCCTGCTGGGAGCAACCGGGACCTAGCTAAAAAGTACCT
 GTGGCAGGGACTGTTTCAGCTATACCTGGATGAGGCTGGGAAGGGCCACAGTTTCAGCTTCCACGGTGCT
 GCCCTGACAGCCCCCAGCAAGGCCAGAAGCTCATGGACAAGGTCTTGAATCCCTCTCCTGTCCCAAGG
 ACTTGGTACCCAGTCGCTGTGATGAACTCAAGGGTCAGTTTCTACAGCTGAGCCAATACCGCCAGCTGAA
 GACAGTGGAGGACTATCAGACCCTCAACAAGGATATTGAGACCCAGGTCCAGCAGGATGGGCTCTGGGAG
 GCAGGCAGGATCTTCTACTTCAGTGTGCCGCCCTTGCCTACGCAGACATTGCCCGTAACATCAACAGCA
 GCTGCCGACCACCCAGGTGCCTGGCTACGGGTGTTTTTAAAAACCCCTTTGGCCATGACCACCTCTC
 AGCCCAGCAGCTGGCTTCAGAACTTGGGAGCTTTTTCCAGGAGGAGAGATGTACCGTGTGGATCATTAC
 CTGGCAAGCAGGCGGTGGCTCAGATCCTGCCCTCCGAGATCAGAACCACAAGGCTTGGATGGCTCT
 GGAACAGGCACCATGTGGAGCGGTGGAGATCATCTTGAAGGAGACCATAGATGCCGAAGGTCGGGCCAG
 TTTCTATGAGGAGTATGGCGTCATCCGTGACACGCTGCAGAACCACCTGACTGAGATCCTCACGCTGGTG
 GCCATGGAAGTGCCTCTCAACATCAGCAGCTCAGCCGCGGTGCTCCAGCATAAGCTCTGGGCCTTCCAGG
 CCCTGCGGGGGCTGCAGAAGAGCAGTGCCATCCTGGGCCAGTACCAGGCCACAGCGGACAGGTGCGCCG
 AGAGCTGCAGAAGCCAGACGGCTTCCAGAGCCTGACACCAACCTTCGCAGGTGTCCTTGTCCACATCGAC
 AACCTGCGCTGGGAGGGTGTCCCTTTCATCCTGATGTCTGGCAAGGCCTTGGATGAGAGAGTGGGCTATG
 TTCGGATTGTGTTAAGAATCGGGCGTACTGCACCCAGAGCGAGAGACTGGGTGCCGGAGCAGAGCCG
 GTGCCTGCCCCAGCAGATTATCTTCTACATTGGACACGGTGAGCTGGGCCACCCTGCCATTCTGGTCAGC
 CGGAACCTGTTCAAACCCTCACTACCCACTCAGAAGTGAAGGAGGTGCAGGACCAGCCTGGGCTCCGCC
 TGTTTCGGCGTCTCTGTCTGATTAACAGCCTACAGGCCTGTGCGGGAGCAAGACGCTACTCCACCCT
 CCTGTGCGACATCTTCCACTGCCGAAAGGAGTCTTTCATCACCACAGAGAACCTTGGCCCTCTGGGTC
 TTCTGGACCCCGTTACTGGACAGCCTGGCCTTGAAGTTCACGCCCATACCCAGGGGGAGCCGAGAATG
 GCCAGTCTGGACTTTGAGTTTAGCGGTGGTCAGCTGACCTTCTCCAGCAGCAGCTGGAGGTGCTGAT
 ACCAGATCTAGGCTCAGTCCCAAAGCCAGTGACTTCCAGGTCTCGGGGCCGGTATAGACAGAGCCCA
 CTGATTACCGCTGGCCAGAGGAGCTGATCTTAAGCTGGCCAGTGACATTGAAGCCGCCGGTGCAGG
 CAGTACGGCACTTCGGCAAGTTCACCTGGCACTGTGAGGTGGTTCGAGCCCATAGCTCTTCCAGCA
 GCTGGCCACAGGACATTACAGCTTCCCCTGGGCCACACACACCTCTGGCTGGTTGATGAGCGTTGTGTC
 CCTCTCTCAGATCCAGACTCCAACCTCCAGGGCCTGCAGGCTCACCTGCTACAGCACGTCAGGGTACCCT
 ACTACAACATCCACCCGATGCCAGTGCACCTGCACCAGCGGCTCTGTGCCGAGGAGGACCAGGGAGCTCA
 GACCTATGCCAGTGAGATCTCAGCCCTGGTGGCCAACAGCAGCTTCGACCTGGTGTCTCTGGGCATGGGC
 ACCGACGGGCACACAGCTTCTCTGTTCCACAGTCCCCACAGGCCTGGATGGTGTGATCAGCTGGTGGTGC
 TGACGGAGAGCCCGTTTCCAGGCCACCAACGCATGAGCCTCAGCCTGCCCTCATCAACCGAGCCAAGAA
 GGTAGCTGTCTGGTTCATGGGCAGGACAAAACGTGAGATCACAACGTTGGTGGCCGCTGGGCCATGAA
 CCAAGAAGTGGCCATCTCAGGTGTGGTGCCTTTCTGGGCAGCTGGTTTGGTACATGGATTACGAGG
 CCTTTCTGGGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG221672 representing NM_173371
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MKHTGIWKMLLAAMCLALLGCLQAQELKGHVSIILLGATGDLAKKYLWQGLFQLYLDEAGKGHSFSFHGA
 ALTAPQQGQKMDKVLESLSCPDKLVPSRCDELKGQFLQLSQYRQLKTVEDYQTLNKDIETQVQQDGLWE
 AGRIFYFSVPPFAYADIARNINSSCRPHPGAWLRVVFEEKPFQHDHLSAQQLASELGSFFQEEEMYRVDHY
 LGKQAVAQILPFRDQNRKALDGLWNRHHVERVEIILKETIDAEGRASFYEEYGVIRDTLQNHLTEILTLV
 AMELPLNISSSAAVLQHKLWAFQALRGLQKSSAILGQYQAYSGQVRRELQKPDGFQSLTPTFAGVLVHID
 NLRWEGVPPFILMSGKALDERVGYVRIVFKNRAYCTQSERHWVPEQSRCLPQQIIFYIGHGELGHPAILVS
 RNLFKPSLPTQWKEVQDQPGLRLFGRPLSDYYAYRPVREQDAYSTLLSHIFHCRKESFITNLLASWV
 FWTPLLDSLAFEVPRPYPGAENGQLLDFEFSGGQLTFSQQQLEVLIPDLGSPKPSDFQVLGARYRQSP
 LITAWPEELISKLASDIEAAAVQAVRHFGKHLALSGGSSPIALFQQLATGHYSFPWAHTHLWLVDERCV
 PLSDPDSNFQGLQAHLQHVRYVYNIHPMPVHLHQRCAEEDQGAQTYASEISALVANSFFDLVLLGMG
 TDGHTASLFPQSPTGLDGDQLVVLTESPFRPHQRMSLSLPLINRAKKVAVLVMGRTKREITTLVSRVGHE
 PKKWPISGVVPLSGQLVWYMDYEAFLG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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_173371.4](#), [NP_775547.2](#)

RefSeq Size: 4739 bp

RefSeq ORF: 2394 bp

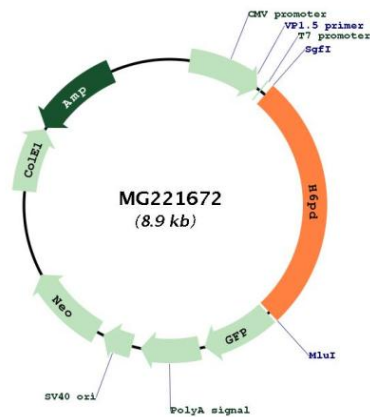
Locus ID: 100198

UniProt ID: [Q8CFX1](#)

Cytogenetics: 4 80.65 cM

Gene Summary: Oxidizes glucose-6-phosphate and glucose, as well as other hexose-6-phosphates. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG221672