

Product datasheet for **MC205271**

G6pdx (NM_008062) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G6pdx (NM_008062) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	G6pdx
Synonyms:	G6pd; G28A; Gpdx
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC075663
 GAAAGCTAGGCCATACATAATGGCTGGGTGACACAGGAGACGGGGACCCAGGAGAACTGTGTGGAGCTGC
 ACTTATGACAAGACTTTGCGATCTCGAAATTTAGGGGCAGCGGCATCGGGGAAGCCAAAGGGCGGGG
 TGGCCAGGGATGCGCGCGCATCTCTCTGCAATGATAGACTAGCCCGAAGCTCTCCCTCTGCTCT
 CCTGAGGCGGGTCAGCTCAGTCAAAGCACACGCCCTCTTGCCTAAATGGGCCAGCGAAGCTTAGCCCC
 GGAAACTGGCTGTGCGCTACAGATCTGTGAACGTGTTTGGCAGCGGCACTAAACTCAGAAAACATCATG
 GCAGAGCAGGTGGCCCTGAGCCGACCCAGGTGTGGGATCTGAGGGAAGAGTTGTACCAGGGTGATG
 CCTTCCACCAAGCTGATACACACATATTTATCATCATGGGTGCATCGGGTGACCTGGCCAAGAAGAAGAT
 CTATCCTACCATCTGGTGGCTGTTCGGGATGGCCTTCTACCTGAAGATACCTTCATTGTGGGCTATGCC
 CGCTCACGACTCACAGTGGACGACATCCGAAAGCAGAGTGAGCCCTTCTTTAAAGCCACTCCAGAAGAAA
 GACCTAAGCTGGAGGAGTTCTTTGCCCGTAATTCCTATGTAGCTGGCCAGTATGATGATGCAGCCTCCTA
 TAAGCACCTCAACAGCCACATGAATGCCCTGCACCAGGGGATGCAGGCCAACCGTCTATTCTACCTGGCC
 TTGCCCCACAGTCTATGAAGCAGTCACCAAGAACATCAAGAGACCTGCATGAGTCAGACAGGCTGGA
 ACCGCATCATCGTGGAGAAGCCCTTCGGGAGAGACCTACAGAGCTCCAATCAACTGTGCAACCACATCTC
 CTCTCTTTCCGTGAGGACCAGATCTACCGCATTGACCACTACCTGGGCAAGAGATGGTCCAGAATCTC
 ATGGTGTGAGGTTTGCCAAACAGGATCTTTGGCCCATCTGGAATCGAGACAACATTGCTTGTGTGATCC
 TCACATTTAAAGAGCCCTTTGGTACTGAGGGTCTGTGGGGCTATTTTGTGAATTTGGGATCATAGGGA
 TGTATGCAGAACCACCTCTGCAGATGTTGTGTCTGGTGGCCATGGAAAAGCCTGCCACTACAGGTTCA
 GATGATGTCCGTGATGAGAAGGTCAAAGTGTGAAGTGTATCTCAGAGGTGGAACTGACAACGTGGTCC
 TTGGCCAATATGTGGGGAACCCCAATGGAGAAGGAGAAGCTGCCAATGGATACTTAGATGACCCACAGT
 ACCCCATGGGTCCACCACTGCCACTTTTGACGACAGCTGTCTCTATGTGGAGAATGAACGGTGGGACGGG
 GTACCTTTCATCTGCGCTGTGGCAAAGCCCTGAATGAACGCAAAGCTGAAGTGAGACTGCAGTCCGAG
 ACGTGGCAGGTGACATCTTCCACCAACAGTGCAAGCGTAATGAGCTGGTATCCGTGTGACGCCAATGA
 GGCAGTATACACCAAGATGATGACCAAGAAGCCTGGCATGTTCTTTAACCTGAGGAGTCGGAGCTGGAT
 CTAACCTATGGCAACAGATACAAGAATGTGAAGCTCCCTGATGCCTATGAACGCCTCATCTGGATGCT
 TCTGTGGGAGCCAGATGCACTTTGTCCGGAGTGATGAACTCAGGGAAGCCTGGCGTATCTTACACCACT
 GCTGCACAAGATTGATCGAGAAAAGCCCCAGCCATCCCCTATGTATATGGCAGCCGCGGCCCCACAGAG
 GCAGATGAGCTGATGAAGAGAGTGGGCTTCCAGTACGAGGGTACCTACAAGTGGTGAACCTCACAAAGC
 TCTGAGCCCTGGAAGTTACACCATCTATACTCTGCCTCTTCTGGCCACCTTTCTGCATCTTCCCTTTTC
 ACCATCTAACCTATATTAGGACTATTGACCCCATATTGGAAGGACTTTGGGACCATAGGCCTTAGATAC
 ACATTCTAGTTCTGGGCTTGGACCGCCATTTTGTCTATGCTGCTGCCACTGCCACCACAGTAAACCC
 AGCTACATTCTCAAATACCAGGCATTTAAAACCTATTGTAGGGTTTCAGGGCCACCACTGGCCCTATCT
 GAGCCACCCATCTTTCCACAAGCCTGAATCACCTCCCTTCCAGCCGCTGCAGAAAAGATGCCTATCAGT
 CTGCCCCCTGGACTCCTTAAGGAGTTAGGAACAATGGGGAGGAGCCTTAGGCCTCAAAGGGACAATGACCA
 AACCAGACTTCCCAGAGGCTATGGGCAAGCTCCTCAAACCTTGAAGGAAGTGGTCAAGGACACCTATGTG
 AGAGGACCTGCCATGGCCACACTAGCCTCAGTGTACTAGACATTCTCCTCACCAGATGGAAGAGACC
 TCATGTGCTAGCAATATTTTGGGGCTCTAGATGTCCCTGACCAATCCATACTCCATGGTCAAACCT
 CATCCCACCTATGGGCAGCCTCCTTACCAAAGGAAGGCAAGCACAGCAGCTAGAATTTCTATCCCAAC
 CCTGCCATTAATCCTCAAAACAGTTAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Ascl-NotI
- ACCN:** NM_008062
- Insert Size:** 1548 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: [BC075663](#), [AAH75663](#)

RefSeq Size: 2639 bp

RefSeq ORF: 1548 bp

Locus ID: 14381

UniProt ID: [Q00612](#)

Cytogenetics: X 38.0 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 (By similarity).[UniProtKB/Swiss-Prot Function]