

Product datasheet for **MC206608**

Gpd2 (BC021359) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpd2 (BC021359) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gpd2
Synonyms:	TISP38, Gpd-m, Gpdh-m, GPDH
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC021359
 CCACGCGTCCGCCGGGCGCGGTGTCGCGGCGAAGGCGGTGGCTGAGTCGCCGGATCATCCCCGGGA
 GCGGAGGCGCACGAGGGGAGGAGGAAGTGGCCGGGAGGGCGTCGGCGGGCGGGTACCGTGGC
 CCCGCTGACCCGGTGACATCCCGGCGCTCGCCGAGCTCAGGGCCACTCTGGTTCTCGGTGAGGCC
 GACTCCGTTCTGGCTGGAGGATCCTGACTTCTTGTCTCGCCGACCCTTGCGCGTGACGACCGATCTCAG
 CTTGAGCAATGGCGTTTCAAAGGCAGTGAAGGGGACTATTCTTGTGGTGGAGGAGCTCGGCCACTGT
 TTTGGACTCTCTCAGTTTGTCTATTACAGAAGGAAGCAAGTGAGCCTGGCGTATGTGGAAGCAGCAGGA
 TACCTCACGGAGCCTGTGAACAGGGAACCTCCCTCCAGAGAAGCTCAGCTCATGACTTTGAAGAACACAC
 CCGAATTTGACATCCTTGTATCGGAGGCGGAGCCACAGGTGTGGCTGTGCACTAGATGCCGTCACCAG
 AGGACTGAAAACAGCCCTGTAGAGAGAGATGACTTCTCATCGGGGACTAGCAGTAGAAGCACTAAATTG
 ATCCACGGTGGTGTGCGATACCTCCAGAAGGCTATCATGAACTTGGATGTTGAGCAGTATAGGATGGTGA
 AAGAAGCCCTTACGAACGTGCCAATTACTAGAAATCGCTCCTCATTTATCAGTCCGTTGCCATCAT
 GCTTCCACTTTACAAGTGGTGGCAGTTACCTTATTACTGGTGGGAATCAAGATGTATGACCTGGTGTGA
 GGGAGTCAATGCCTGAAGAGCAGTTACGTCCTCAGCAAATCCCGAGCCCTGGAGCATTTTCCATGCTCC
 AGAAGGACAAGCTGGTAGGCGCCATTGTCTACTATGACGGACAACACAACGATGCACGGATGAACCTCGC
 CATCGCCCTCACTGCTGCCAGGTACGGGCTGCCACGGCCAATTACATGGAGGTGGTGGAGCTTGCTCAAG
 AAGACAGACCCTGAAACCGCAAAGAGCGAGTGAGCGGTGCGCGGTGCAAGGATGTGCTCACAGGCGAGG
 AATTTGACGTGAGAGCCAAATGCGTTATCAATGCCTCCGGCCCTTTCACAGACTCCGTGCCAAAATGGA
 TGATAAAAACGTTGTTCCCATCTGCCAGCCAGTGCCGGGGTCCATATTGTGATGCCCGGATACTACAGC
 CCTGAGAACATGGGACTTCTTGATCCTGCAACCAGTGATGGCAGAGTGATTTTCTTCTTGGCTTGGGAGA
 AGATGACAATTGCTGGCACCCTGATACGCCAACGGACGTACGCACCATCCTATTCCTCAGAAGAAGA
 CATTAACCTTATCCTGAATGAAGTGCAGGAACTACCTGAGTCTGACGTTGAAGTGAAGAGGGGATGTC
 TTGGCAGCCTGGAGTGGTATCCGTCCTTGTACTGATCCCAAGTCTGCAGACACTCAGTCCATCTCTC
 GAAATCATGTTGTGGACATCAGTGACAGCGGACTCATCAATAAGCAGGTGGGAAGTGGACCACCTACCG
 CTCCATGGCAGAAGATACCGTGAATGCAGCTGTCAAGTTTCAACAATTGAATGCGGGACCGAGTAGGACT
 GTTGGGCTGTTCTTCAAGGAGGCAAAGACTGGAGCCCCACACTTACATCAGGCTTGTCCAGGATTATG
 GGCTTGAGAGCGAGGTTGCACAACATCTGGCCAAAACCTATGGTGACAAGGCTTTTGGAGTGGCCAAAAT
 GGCAAGTGTGACTGAAAAGCGGTGGCCTGTTGTTGGAGTGCCTTGTGTGAGAATTTCCATACATTGAA
 GCAGAGGTGAAATACGGCATTAAAGGATATGCCTGCAGTGCAGTTGACATGATCTCACGGCGACCCGCC
 TGGCCTTTCTCAATGTTCAAGCTGCAGAGGAAGCCCTGCCTAGGATTGTTGAACTAATGGGAAGAGAGTT
 GAACTGGAGTGAATTGAGGAAACAGGAAGAACTTAAAACAGCCAGAGATTTCTGTACTATGAAATGGGC
 TACAAGTCTCGAACAGAACAACTTACAGATAGCACTGAAATCAGCCTGCTGCCTTACAGACATCGATAGGT
 ACAAGAAGAGATTTACAAGTTTGTGAAAGATGAAAAAGGCTTCAATACCATTGTTGATGTTACGCGTGT
 CCTAGAGAGTATCAATGTACAAATGGACGAAAACACACTGCATGAAATTCTGCGAAGTAGATTGAAAC
 AAAATGGACAGGTTGAGCTGCACGAGTTTCTGCAGCTGATGAGCGCAGTTCAGAAAGGAAGGGTCTCTG
 GAAGCCGACTTGGCATCCTGATGAAAATGCCGAGGAGAACTTGGACCGCAGAGTTCCAATCCCCGTGGA
 CCGTAGTTGTGGAGGATTGTGAGTCTGACCAGTAAATCCGCCACCAGCAAGCATAGGACAGCCAGCGCTA
 TGTACAACCAGAGATGACTTAAACTCTAAAATAGTGGATCTCGTAGCTGCCTTTTTTAAAAACAAACAAA
 CAAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** EcoRI-NotI
- ACCN:** BC021359
- Insert Size:** 2184 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: [BC021359](#), [AAH21359](#)

RefSeq Size: 2626 bp

RefSeq ORF: 2184 bp

Locus ID: 14571

Cytogenetics: 2 31.66 cM

Gene Summary: Calcium-responsive mitochondrial glycerol-3-phosphate dehydrogenase which seems to be a key component of the pancreatic beta-cell glucose-sensing device.[UniProtKB/Swiss-Prot Function]