

Product datasheet for **MR219331**

Gpd2 (NM_010274) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpd2 (NM_010274) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpd2
Synonyms:	AA408484; AI448216; AU021455; AW494132; Gdm1; Gpd-m; GPDH; Gpdh-m; TISP38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR219331 representing NM_010274
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTTTCAAAGGCCAGTGAAGGGGACTATTCTTGTGGGTGGAGGAGCTCTGGCCACTGTTTTGGGAC
 TCTCTCCGTTTGCTCATTACAGAAGGAAGCAAGTGAGCCTGGCATATGTGGAAGCAGCAGGATACCTCAC
 GGAGCCTGTGAACAGGGAACCTCCCTCCAGAGAAGCTCAGCTCATGACTTTGAAGAACACACCCGAATTT
 GACATCCTTGTTATCGGAGGCGGAGCCACAGGGTGTGGCTGTGCACTAGATGCCGTACCAGAGGACTGA
 AAACAGCCCTTGTAGAGAGAGATGACTTCTCATCGGGGACTAGCAGTAGAAGCACTAAATTGATCCACGG
 TGGTGTGCGATACCTCCAGAAGGCTATCATGAACCTGGATGTTGAGCAGTATAGGATGGTAAAGAAGCC
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 CTTGCCATCTGATGAAAATGCCGAGGAGAAGTTGGACCGCAGAGTTCCAATCCCGTGGACCGTAGTT
 GTGGAGGATTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR219331 representing NM_010274
Red=Cloning site Green=Tags(s)

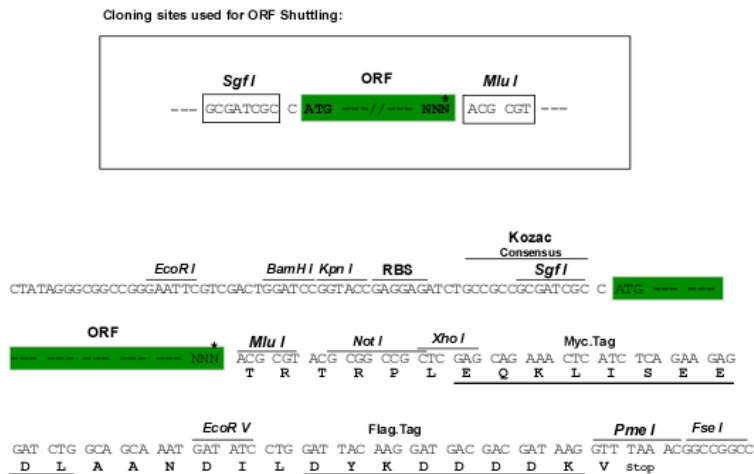
MAFQKAVKGTILVGGALATVLGLSPFAHYRRKQVSLAYVEAAGYLTEPVNREPPSREAQLMTLKNTPEF
 DILVIGGGATGCGCALDAVTRGLKTALVERDDFSSGTSSRSTKLIHGVRVYLQKAIMNLDVEQYRMVKEA
 LHERANLLEIAPHL SAPLPIMLPYKWWQLPYWVGIKMYDLVAGSQCLKSSYVLKSRAL EHF PMLQKD
 KLVGAIVYYDGGHNDARMNLAIALTAARYGAATANYMEVVSLLKKTD PETGKERVSGARCKDVL TGQEFD
 VRAKCVINASGPF TDSVRKMDDKNVVPICQPSAGVHIVMPGYSPENMGLLDPATSDGRVIFFLPWEKMT
 IAGTTDPTDVTTHPIPSEEDINFILNEVRNYLSSDVEVRRGDVLAAWSGIRPLVTPDKSADTQSI SRNH
 VVDISDSGLITIAGGKWT TYRSM AEDTVDAAVKFHNLNAGPSRTVGLFLQGGKDWSP TLYIRLVQDYGLE
 SEVAQHLAKTYGDKAFEVAKMASVTGKRWPVGVRLVSEFPYIEAEVKYGIKEYACTAVDMI SRRTLAF
 LNVQAAEEALPRIVELMGRELNWSLRKQEELETATRFLYYEMGYKSRTEQLTDSTEISLLPSDIDRYKK
 RFHKFDEDEKGFITIVDQVRVLESINVQMDENTLHEILCEVDLNKNGQVELHEFLQLMSAVQKGRVSGSR
 LAILMKTAEENLDRRVP IPVDRSCGGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9029_b09.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_010274

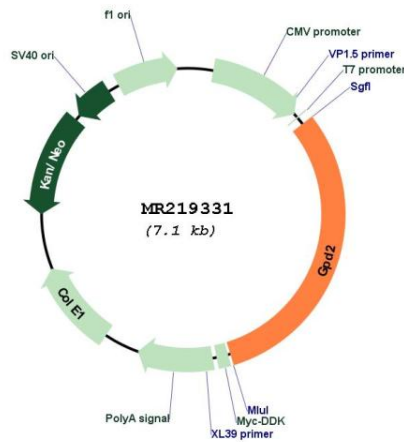
ORF Size: 2181 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
RefSeq:	<u>NM_010274.3, NP_034404.3</u>
RefSeq Size:	5620 bp
RefSeq ORF:	2184 bp
Locus ID:	14571
UniProt ID:	<u>Q64521</u>
Cytogenetics:	2 31.66 cM
MW:	81.4 kDa
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]

Product images:



Circular map for MR219331