

Product datasheet for **MR205280**

Gpd1 (NM_010271) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpd1 (NM_010271) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpd1
Synonyms:	A1747587; Gdc-1; Gdc1; mKIAA4010
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205280 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGCAAGAAAGTCTGCATTGTGGCTCTGGCAACTGGGGCTCAGCCATTGCCAAGATCGTGGGTA
GCAATGCAGGCCGGCTGGCACACTTTGACCACGGGTGACCATGTGGGTGTTTGAGGAAGACATCGGGG
CAGAAAGCTAACTGAGATCATCAACTCAGCACGAGAATGTTAAATACCTGCCAGGGCACAAGCTGCC
CCCAATGTGGTGGCCATCCAGACGTGGTCCAGGCTGCAACAGGCGCTGACATCCTGGTTTTTGTGGTAC
CCCATCAGTTCATTGGCAAGATCTGTGACCAGCTCAAGGGCCACTGAAGGCAATACTATTGGCATATC
TCTTATTAAGGGGTAGACGAGGGCCCCAACGGCTGAAGCTATTTCTGAAGTGATTGGGGAGCGCCTT
GGCATTCCCATGAGCGTCTGATGGGGCCAACATTGCCAGCGAGGTGGCTGAGGAGAAGTTCTGTGAGA
CGACCATCGGCTGCAAGGACCCGGCCAGGGACAGCTCCTGAAGGACCTGATGCAGACACCAACTTTTCG
CATCACTGTGGTACAAGAGGTGGACACAGTGGAGATCTGTGGGCCTTGAAGAATATAGTGGCCGTTGGG
GCTGGCTTCTGTGATGGGCTTGGCTTCGGTGACAACACCAAGGCGGCGGTGATCCGGTGGGGCTCATGG
AGATGATCGCCTTCGCCAAGCTCTTCTGCAGTGGCACTGTGTCTCGCCACCTTCTGGAGAGCTGCGG
GGTCCGACACCTCATCACGACCTGCTATGGGGGCGGAACCGCAAGGTGGCAGAGGCCTTGTCTCGAAT
GGAAAGTCCATTGAGCAGCTGGAGAAGGAGATGCTAAATGGGCAGAAGCTACAGGGGCCACAGACGCC
GGGAGCTGCACAGCATTCTCCAACACAAGGGCCTTGTGGACAAGTTCCCTTGTTCACCTGCGGTGTACAA
AGTGTGCTATGAGGGCCAGCCAGTGGGCGAATTCATCCGCTGTCTGCAGAACACCCGGAACACATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205280 protein sequence
Red=Cloning site Green=Tags(s)

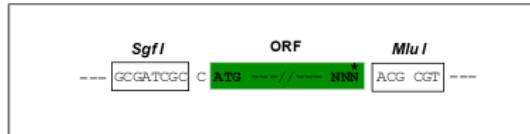
MAGKKVCIVGSGNWGSAIAKIVGSNAGRLAHFDPVRTMWWFEEDIGGRKLTEIINTQHENVKYLPGHKLP
 PNVVAIPDVVQAATGADILVFVPHQFIGKICDQLKGLKANTIGISLIKGVDEGPNGLKLISEVIGERL
 GIPMSVLMGANIASEVAEEKFCETTIGCKDPAQGQLLKDLMQTPNFRITVVQEVDTVEICGALKNIVAVG
 AGFCDGLGFGDNTKAAVIRLGLMEMIAFAKLFCSGTVSSATFLESCGVADLITTCYGGRNRKVAEAFART
 GKSIIEQLEKEMLNQKLQGPQTARELHSILQHKGLVDKFLFTAVYKVCYEGQPVGFEIRCLQNHPEHM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010271

ORF Size: 1050 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:

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_010271.3](#)

RefSeq Size: 2809 bp

RefSeq ORF: 1050 bp

Locus ID: 14555

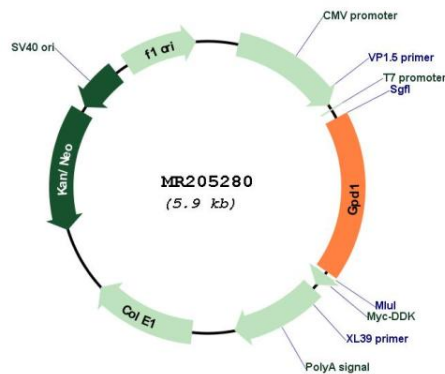
UniProt ID: [P13707](#)

Cytogenetics: 15 56.13 cM

MW: 37.6 kDa

Gene Summary: Has glycerol-3-phosphate dehydrogenase activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205280