

Product datasheet for **MR224503**

Pgd (NM_001081274) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgd (NM_001081274) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pgd
Synonyms:	0610042A05Rik; AU019875; C78335
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224503 representing NM_001081274
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCAAGCTGACATTGCACTGATCGGACTGGCTGTATGGGCCAGAAGCTTAATTTTGAACATGAATG
 ATCATGGATTTGGTCTGTGCTTTCAATAGGACAGTCTCCAAAGTCGATGACTTCTTGGCCAACGAGGC
 GAAGGGCACCAAGGTGGTTGGTGACAGTCCTTAAGGACATGGTCTCCAAACTAAAGAAGCCCCGCGG
 GTCATCTGCTTGTGAAGGCCGGCAAGCCGTGGATGATTTATCGAGAAATTAGTACCCTTGTGGACA
 CGGGTGACATCATCATCGATGGAGGAAATCTGAATACCGGGACACGACAAGAAGATGCCGGGACCTCAA
 GGCCAAGGCATCTTGTGGGGAGCGGAGTCACTGGTGGTGAAGGAGGGCTCGGTACGGGCCGTCA
 CTCATGCCAGGAGGGAACAAGAGGCTTGGCCCCACATCAAGGCGATCTCCAAGCCATCGCTGCAAAA
 TGGGAACCGGAGAACCCTGCTGTGACTGGTGGGAGATGAGGGGGCGGGCACTTTGTGAAGATGGTGCA
 CAACGGGATAGAGTATGGAGACATGCAGCTCATCTGTGAGGCTTACCATTTGATGAAGGATGTTCTGGGC
 ATGCGGCATGAGGAGATGGCTCAGGCATTTGAAGAATGGAACAAGACAGAGCTGGACTATTCTCTGATTG
 AAATCACTGTAAACATTCTCAAGTACCGGGACACTGACGGCAAAGAGCTGTTGCCAAAGATCCGGGACAG
 TGCTGGGCAGAAGGGCACTGGGAAGTGGACCGCCATCTCGGCGCTGGAGTACGGCATGCCGTCACCCCTC
 ATGGAGAAGCTGTCTTGTCTCGGTGCTTGTCTCTCTGAAGGAGGAGCGGGTTCAGGCCAGCCAAAAGC
 TGAAGGGTCTAAGGTGGTCCAGCTGGAAGGCAGTAAAGAGTATTCTGGAGGACATCCGTAAGGCCCT
 CTATGCTTCCAAGATCATCTCTACGCCAAGGCTTTATGCTGCTCAGACAGGACGCCACTGAGTTTGGC
 TGGACCTCAATTATGGCGGCATTGCCCTGATGTGGAGAGGGGCTGCATCATCCGAAGTGTGTTCTTGG
 GAAAAATTAAAGATGCATTTGAGCGAAACCCAGAAGCTTCAAGACACTGCTAGATGACTTCTTTAAGTC
 AGCAGTTGACAACCTGCCAGGACTCTGGCGGGGATGATCAGCACTGGGGTGAAGCAGGCATTCCCATG
 CCCTGTTCACTACTGCCCTCTCTTCTATGATGGGTACAGACACGAGATGCTGCCAGCAAACCTCATCC
 AGGCTCAACGGGATTACTTTGGGGCTCACACCTATGAACTCTTAACCAAACCGGGAGAATTTATCCACAC
 CAACTGGACGGGCCACGGGGCAGTGTGCATCTCTTACATAAATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224503 representing NM_001081274
 Red=Cloning site Green=Tags(s)

MAQADIALIGLAVMGQNLILNMNDHGFVVCANRTVSKVDDFLANEAKGTVVGAQSLKDMVSKLKKPRR
 VILLVKAGQAVDDFIEKLVPLLDTGDIIDGGNSEYRDTTRRCRDLKAKGILFVSGVSGGEGARYGPS
 LMPGGNKEAWPHIKAI FQAI AAKVGTGEPCCDWGDEGAGHFVKMVHNGIEYGMQLICEAYHLMKDVLG
 MRHEEMAQAFEWNKTELD SFLIEITANILKYRDTDGKELLPKIRDSAGQKGTGKWT AISALEYGMPTVL
 IGEAVFARCLSSLKEERVQASQKLGPKVVQLEGSKKSFLIEDIRKALYASKIISYAQGFMLLRQAATEFG
 WTLNYGGIALMWRGGCIIRSVFLGKIKDAFERNPELQNL LDDFFKSAVDNQCDSWRRVISTGVQAGIPM
 PCFTTALSFYDGYRHEMLPANLIQAQRDYFGAHTYELLTKPGEFIHTNWTGHGGSVSSSSSYNA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9045_g10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001081274

ORF Size: 1449 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_001081274.2](#)

RefSeq Size: 2224 bp

RefSeq ORF: 1452 bp

Locus ID: 110208

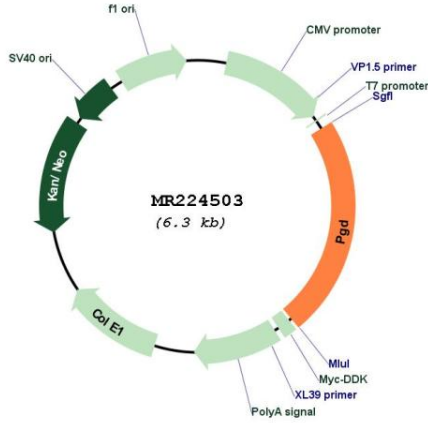
UniProt ID: [Q9DCD0](#)

Cytogenetics: 4 78.96 cM

MW: 53.7 kDa

Gene Summary: Catalyzes the oxidative decarboxylation of 6-phosphogluconate to ribulose 5-phosphate and CO(2), with concomitant reduction of NADP to NADPH.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224503