

Product datasheet for **MG224503**

Pgd (NM_001081274) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgd (NM_001081274) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pgd
Synonyms:	0610042A05Rik; AU019875; C78335
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG224503 representing NM_001081274
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCCAAGCTGACATTGCACTGATCGGACTGGCTGTATGGGCCAGAAGCTTAATTTTGAACATGAATG
 ATCATGGATTTGGTCTGTGCTTTCAATAGGACAGTCTCCAAAGTCGATGACTTCTTGGCCAACGAGGC
 GAAGGGCACCAAGGTGGTTGGTGACAGTCCTTAAAGGACATGGTCTCCAAACTAAAGAAGCCCCGCCGG
 GTCATCTGCTTGTGAAGGCCGGCAAGCCGTGGATGATTTTCATCGAGAAATTAGTACCCTTGTGGACA
 CGGGTGACATCATCATCGATGGAGGAAATCTGAATACCGGGACACGACAAGAAGATGCCGGGACCTCAA
 GGCCAAGGCATCTTGTGGGGAGCGGAGTCACTGGTGGTGAAGGAGGGCTCGGTACGGGCCGTC
 CTCATGCCAGGAGGAACAAAGAGGCTTGGCCCCACATCAAGGCGATCTTCAAGCCATCGCTGCAAAAAG
 TGGGAACCGGAGAACCCTGCTGTGACTGGTGGGAGATGAGGGGGCGGGCACTTTGTGAAGATGGTGCA
 CAACGGGATAGAGTATGGAGACATGCAGCTCATCTGTGAGGCTTACCATTTGATGAAGGATGTTCTGGGC
 ATGCGGCATGAGGAGATGGCTCAGGCATTTGAAGAATGGAACAAGACAGAGCTGGACTATTCTCTGATTG
 AAATCACTGTAAACATTCTCAAGTACCGGGACACTGACGGCAAAGAGCTGTTGCCAAAGATCCGGGACAG
 TGCTGGGCAGAAGGGCACTGGGAAGTGGACCGCCATCTCGGCGCTGGAGTACGGCATGCCCGTACCCTC
 ATGGAGAAGCTGTCTTGTCTCGGTGCTTGTCTCTCTGAAGGAGGAGCGGGTTCAGGCCAGCCAAAAGC
 TGAAGGGTCTAAGGTGGTCCAGCTGGAAGGCAGTAAAGAGTATTCTGGAGGACATCCGTAAGGCCCT
 CTATGCTTCCAAGATCATCTCTACGCCAAGGCTTTATGCTGCTCAGACAGGCAGCCACTGAGTTTGGC
 TGGACCTCAATTATGGCGCCATTGCCCTGATGTGGAGAGGGGCTGCATCATCCGAAGTGTGTTCTGG
 GAAAAATTAAGATGCATTTGAGCGAAACCCAGAAGTTCAGAACCTACTGCTAGATGACTCTTTAAGT
 AGCAGTTGACAACCTGCCAGGACTCTGGCGCGGGTATCAGCACTGGGGTGAAGCAGGCATTCATCCATG
 CCCTGTTCACTACTGCCCTCTCTTCTATGATGGGTACAGACACGAGATGCTGCCAGAAAACCTCATCC
 AGGCTCAACGGGATTACTTTGGGGCTCACACCTATGAACTCTTAACCAAACCGGGAGAATTTATCCACAC
 CAACTGGACGGGCCACGGGGCAGTGTGCATCTCTTACATAAATGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG224503 representing NM_001081274
 Red=Cloning site Green=Tags(s)

MAQADIALIGLAVMQNLILNMNDHGFVVCANRNTVSKVDDFLANEAKGTKVVGQAQSLKDMVSKLKKPRR
 VILLVKAGQAVDDFIEKLVPLLDTGDIIDGGNSEYRDTTRRCRDLKAKGILFVSGVSGGEEGARYGPS
 LMPGGNKEAWPHIKAIHQIAIAKAVGTGEPCCDWVGDGAGHFVKMVMHNGIEYQDMQLICEAYHLMKDVLG
 MRHEEMAQAFEEWNKTELDNFLIEITANILKYRDTDGKELLPKIRDSAGQKGTGKWTASALEYGMPTL
 IGEAVFARCLSSLKEERVQASQKLKPKVVQLEGSKSFLEDIRKALYASKIISYAQGFMLLRQAATEFG
 WTLNYGAIALMWRGGCIIRSVFLGKIKDAFERNPELQNLDDFFKSAVDNCQDSWRRVISTGVQAGIPM
 PCFTTALSFYDGYRHEMLPANLIQAQRDYFGAHTYELLTKPGEFIHTNWTGHGGSVSSSSSYNA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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_001081274.1](#), [NP_001074743.1](#)

RefSeq Size: 2224 bp

RefSeq ORF: 1452 bp

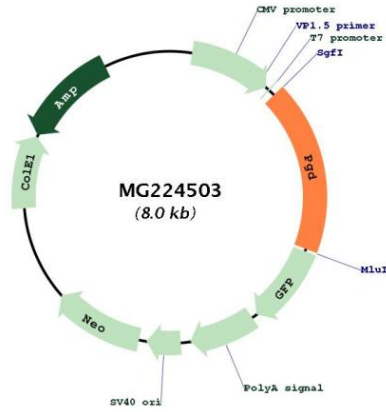
Locus ID: 110208

UniProt ID: [Q9DCD0](#)

Cytogenetics: 4 78.96 cM

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 MG224503