

## Product datasheet for **MR221945**

### **Pdia2 (NM\_001081070) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pdia2 (NM_001081070) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdia2
Synonyms:	1810041F13Rik; AI661267; Pdip; Pdipl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR221945 representing NM\_001081070  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACAAGCAGCTTCTGCCAGTGTGCTGCTCCTGCTGGGTGTCTCAGGCTCATGGGGACAGGGAGAAG  
 AGCCTGGGGTCCCTTCAAGGTGCTCCCTGAGGAGCCACTGGGAAGAAGTCCCAAGGAGGATGGTAT  
 CTTGGTCTTGAACCAACCAACCTGAGCCTGGCACTGCAGGAGCATTAGCCCTGATGGTGGAGTTTAT  
 GCCCATGGTGTGGTCACTGCAAAGAACTAGCTCCCGAGTACAGCAAGGCGGCTGCCCTGCTGGCGGCTG  
 AGTCAGCTGTGGTCACTTGGCCAAGGTGGATGGCCCTGCGGAACCGGAGCTGACCAAGGAGTTTGAAGT  
 GGTAGGGTACCCTACACTCAAGTCTTCCAGAATGAAACCGCACAAACCCAGAAGAGTACGCAGGGCCC  
 AAGACTGCTGAGGCATTGCTGAGTGGCTGAGGCGGCGAGTGGGGCCAGTGCCACACATCTGGAGGATG  
 AGGAAGGTGTCCAGGCACTGATGGCCAATGGGATATGGTGGTCACTGGCTTCTTTCAGGATCTACAGGG  
 AAAGGATATGGCAACTTCTGCGCTTGGCCAAGGATGCCCTGGACATGACCTTTGGCTTCACTGACCAG  
 CCACAACTTTTTGAGAAGTTGGCCTCACCAAGGATACTGTGGTCTTTTCAAGAAGTTTATGAGGGTC  
 GGGCCGACTTCCCGGTAGACAAGGAGACTGGCCTGGACCTGGGGGACCTGTCCCGCTTCTCGTCATACA  
 TAGCATGCACCTGGTACAGAATTAACAGCCAGACATCACCTAAGATCTTTGCAGCCAAGATCCTCAAC  
 CACCTGCTGCTGTTTGTGAACAGACACTAGCTCAACACAGGGAAGTGTGACAGACTTCAGAGAGGCAG  
 CTCCTCCATTGAGGGGCGAGGTGTTGTTTCGTAATGGTGGATGTGGCTGCTGACAACAGCCATGTGCTGAA  
 TTTTTGGCCTCAAGGCTGAGGAAGCCCCACCTGCGTCTGATCAATGTTGAGACTACCAAGAAGTAT  
 GCACCTACAGGGGTGATAGCCATCACTGCAGCTTCTGTGGCTGCCTTCTGCCAGGCAGTTCTCCATGGGG  
 AAATCAAGCACTATCTCCTGAGTCAGGAGATACCCCTGACTGGGACCAGGGGCCAGCAAGACTCTCGT  
 GAGCAAGAATTTGAGCAGGTTGCCTTTGATGAACCAAGAATGTGTTTGTCAAGTTCTATGCCCATGG  
 TGAGCCACTGCAAGGAGATGGCTCCAGCCTGGGAGCATTGGCAGAGAAGTACAAGGATCGTGAGGACA  
 TTGTCATTGCCGAGTTGGATGCTACAGCTAATGAGCTGGAGGCCTTCTGTGCTCGGCTATCCCACTCT  
 CAAGTTCTTCTGCAGGGCCTGACCGAAAGTTATAGACTACAAAAGCACTAGGGACCTAGAGACATTC  
 TCCAAGTCTCGGACAGCGGAGGTACCTGCCTAAGGAGGAACCAAGGAGCCTGCAGCCTCTGCCCCAG  
 AAGCAAGCCAATTCACCTTGGTCCCAAGGAGGAGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221945 representing NM\_001081070  
 Red=Cloning site Green=Tags(s)

MDKQLLPVLLLLLVSGSWGQGEPPGSEVLPPEPTGEEVPEKEDGILVLNHRITSLALQEHSALMVEFY  
 APWCGHCKELAPEYSKAAALLAAESAVVTLAKVDGPAEPELTKEFEVVGYPFLKFFQNGNRTNPEEYAGP  
 KTAEGIAEWLRRRVGPSATHLEDEEGVQALMAKWDVVIGFFQDLQGKDMATFLALAKDALDMTFGFTDQ  
 PQLFEKFLTKDVTVFLFKFDEGRADFPVDKETGLDLGDLSRFLVIHSMHLVTEFNSQTSPIFAAKILN  
 HLLL FVNQTLAQHRELL TDFREAAPPFRGQVLFVMDVAADNSHVLNYFGLKAEAEPTLRLINVTTKKY  
 APTGVIAITAASVA AFCQAVLHGEIKHYLLSQEIPPDWDQGPVKTLVSKNFEQVAFDETKNVFKFYAPW  
 CSHCKEMAPAWELAKEYKDREDIVIAELDATANELEAFSVLGYPTLKFPPAGPDRKVIDYKSTRDLET  
 SKFLDSGGHLPKEEPKEPAASAPEAQANSTLGPKEEL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9036\\_e07.zip](https://cdn.origene.com/chromatograms/mm9036_e07.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**



**ACCN:** NM\_001081070

**ORF Size:** 1581 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\\_001081070.1](#), [NP\\_001074539.1](#)

**RefSeq Size:** 1721 bp

**RefSeq ORF:** 1584 bp

**Locus ID:** 69191

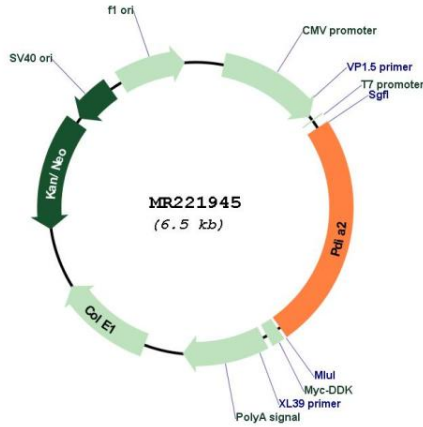
**UniProt ID:** [D3Z6P0](#)

**Cytogenetics:** 17 A3.3

**MW:** 58.8 kDa

**Gene Summary:** Acts as an intracellular estrogen-binding protein. May be involved in modulating cellular levels and biological functions of estrogens in the pancreas. May act as a chaperone that inhibits aggregation of misfolded proteins (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR221945