

Product datasheet for **MG221945**

Pdia2 (NM_001081070) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdia2 (NM_001081070) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pdia2
Synonyms:	1810041F13Rik; AI661267; Pdip; Pdipl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG221945 representing NM_001081070
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAAGCAGCTTCTGCCAGTGTGCTGCTCCTGCTGGGTGTCTCAGGCTCATGGGGACAGGGAGAAG
 AGCCTGGGGTCTTTCAGAGGTGCTCCCTGAGGAGCCACTGGGAAGAAGTCCCAAGGAGGATGGTAT
 CTTGGTCTTGAACCAACCAACCTGAGCCTGGCACTGCAGGAGCATTAGCCCTGATGGTGGAGTTTAT
 GCCCATGGTGTGGTCACTGCAAAGAACTAGCTCCCGAGTACAGCAAGGCGGCTGCCCTGCTGGCGGCTG
 AGTCAGCTGTGGTCACTTGGCCAAGGTGGATGGCCCTGCGGAACCGGAGCTGACCAAGGAGTTTGAAGT
 GGTAGGGTACCCTACACTCAAGTTCTTCCAGAATGAAACCGCACAAACCCAGAAGAGTACGAGGGCCC
 AAGACTGCTGAGGCATTGCTGAGTGGCTGAGGCGGCGAGTGGGCCCAGTGCCACACATCTGGAGGATG
 AGGAAGGTGTCCAGGCACTGATGGCCAATGGGATATGGTGGTCACTGGCTTCTTTCAGGATCTACAGGG
 AAAGGATATGGCAACTTCTGCTGGCTTGGCCAAGGATGCCCTGGACATGACCTTTGGCTTCACTGACCAG
 CCACAACTTTTTGAGAAGTTGGCTCACCAAGGATACTGTGGTCTTTCAAGAAGTTTATGAGGGTC
 GGGCCGACTTCCCGGTAGACAAGGAGACTGGCCTGGACCTGGGGGACCTGTCCCGCTTCTCGTCATACA
 TAGCATGCACCTGGTACAGAATTCAACAGCCAGACATCACCTAAGATCTTTCAGCCAAGATCCTCAAC
 CACCTGCTGCTGTTTGTGAACAGACACTAGCTCAACACAGGGAAGTGTGACAGACTTACAGAGGGCAG
 CTCCTCCATTGAGGGGCGAGGTGTTGTTTCGTAATGGTGGATGTGGCTGCTGACAACAGCCATGTGCTGAA
 TTTTTGGCCTCAAGGCTGAGGAAGCCCCACCTGCGTCTGATCAATGTTGAGACTACCAAGAAGTAT
 GCACCTACAGGGGTGATAGCCATCACTGCAGCTTCTGTGGCTGCCTTCTGCCAGGCAAGTCTCCATGGGG
 AAATCAAGCACTATCTCCTGAGTCAGGAGATACCCCTGACTGGGACCAGGGGCCAGTCAAGACTCTCGT
 GAGCAAGAATTTTGGCAGGTTGCCTTTGATGAAACCAAGAATGTGTTTGTCAAGTTCTATGCCCATGG
 TGAGCCACTGCAAGGAGATGGCTCCAGCCTGGGAGCATTGGCAGAGAAGTACAAGGATCGTGAGGACA
 TTGTCATTGCCGAGTTGGATGCTACAGCTAATGAGCTGGAGGCCTTCTGTGCTCGGCTATCCCACTCT
 CAAGTTCTTCTGCAGGGCCTGACCGAAAGTTATAGACTACAAAAGCACTAGGGACCTAGAGACATTC
 TCCAAGTCTGACAGCGGAGGTACCTGCCTAAGGAGGAACCAAGGAGCCTGCAGCCTGCCCCAG
 AAGCACAAGCAATTCCACCTTGGGTCCCAAGGAGGAGCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG221945 representing NM_001081070
 Red=Cloning site Green=Tags(s)

MDKQLLPVLLLLLVSGSWGQGEPPGSEVLPPEPTGEEVPEKEDGILVLNHRITSLALQEHSALMVEFY
 APWCGHCKELAPEYSKAAALLAAESAVVTLAKVDGPAEPELTKEFEVVGYPYPTLKFQNGNRTNPEEYAGP
 KTAEGIAEWLRRRVGPSATHLEDEEGVQALMAKWDMMVIGFFQDLQGDMAFLALAKDALDMTFGFTDQ
 PQLFEKFLTKDVTVLFKFDDEGRADFPVDKETGLDLGDLRFLVIHSMHLVTEFNSQTSPIFAAKILN
 HLLL FVNQTLAQHRELLTDFREAAPPFRGQVLFVMDVAADNSHVLNRYFGLKAEAAPTLRLINVTETTKY
 APTGVIAITAASVA AFCQAVLHGEIKHYLLSQEIPPDWDQGPVKTLVSKNFEQVAFDETKNVFKFYAPW
 CSHCKEMAPAWELAKEYKDREDIVIAELDATANELEAFSVLGYPTLKFPPAGPDRKVIDYKSTRDLETF
 SKFLDSGGHLPKEEPKEPAASAPAEQANSTLGPKEEL

TRTRPLE – GFP Tag – V

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

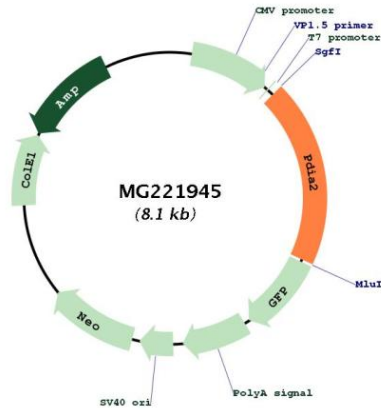
UniProt ID: [D3Z6P0](#)

Cytogenetics: 17 A3.3

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 MG221945