

## Product datasheet for **RR202839**

### **Pdia3 (NM\_017319) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pdia3 (NM_017319) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdia3
Synonyms:	ER60; ERp57; Grp58
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR202839 representing NM\_017319  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCGCTTCAGCTGCCTTGCCTGCTCCCGGGCGTGGCGTTGCTGCTCGCCTCGGCCCTCCTCGCCTCCG  
 CCTCAGACGTGTTGGAACGACGACGAAAACTTCGAGAGTCGCGTCTCCGACACGGGCTCAGCTGGGCT  
 CATGCTAGTCGAGTTCTTCGCCCATGGTGTGGACATTGCAAGAGGCTTGCCCTGAGTATGAAGCTGCA  
 GCAACCAGATTAAGGAATAGTCCATTAGCAAAGGTGGACTGCACTGCCAACACAAACACCTGTAATA  
 AGTATGGCGTCAGCGGCTACCAACTCTTAAAATATTTAGAGATGGTGAAGAAGCGGGTCTTATGATGG  
 GCCTAGGACTGCCGATGGAATTGTCAGCCACTGAAGAAACAAGCAGGACCAGCTTCAGTTCCTCTCAGG  
 ACTGAGGACGAATTAAGAAGTTCATTAGTATAAAGATGCCTCGGTGGTGGGCTTTTTCAGGGATTTAT  
 TCAGTGTGGCCACTCCGAGTTCCTAAAAGCAGCCAGCAACTTGAGAGATAACTACCGATTTGCACACAC  
 CAACGTTGAATCTCTGGTGAAGGAGTACGATGATAATGGAGAGGGGATTACTATATTTTCGTCATTACAT  
 CTGGCTAACAAATTTGAAGACAAAATTGTGGCATATACTGAAAAGAAAATGACCAGTGGCAAATCAAGA  
 AGTTTTATTCAGGAAAGCATTGTTGGTCTCTGTCCTCATATGACAGAAGATAATAAAGATTTGATACAAGG  
 CAAGGACTTACTCACGGCTTACTATGATGTGGACTATGAAAAGAATACTAAAGGTTCTAACTACTGGAGA  
 AACAGGGTCATGATGGTGGCAAAGACATTCCTTGATGCTGGACACAACTCAACTTTGCTGTAGCTAGCC  
 GTAAAACCTTTAGCCATGAATTGCTGACTTTGGCTTAGAAAGCACTACTGGAGAGATTCCTGTTGTGGC  
 TATCAGAACTGCTAAAGGAGAGAAGTTTGTGATGCAGGAGGAGTTCTCGCGGGATGGCAAGGCTCTTGAG  
 CGGTTCTGCAGGAATACTTTGATGGCAACTGAAGAGATACCTGAAGTCTGAACCTATCCCCGAGACCA  
 ACGAAGGACCTGTCAAGGTGGTGGTAGCAGAGAGTTTTGATGACATAGTGAATGCTGAAGACAAGGACGT  
 GCTGATCGAGTTTTATGCTCCTTGGTGTGGCCACTGTAAGAACCCTGGAACCCAAGTACAAAAGAGCTGGGG  
 GAGAAACTCAGCAAAGACCCAAATATTGTCATAGCCAAGATGGATGCCACAGCCAATGATGTGCCTTCTC  
 CATATGAAGTCAAGGGTTTTCTACCATCTACTTCTCACCAGCCAACAAGAAGCTAACTCCAAGAAGTA  
 TGAAGGTGGCGTGAATTAATGATCTTATCAGCTATCTACAACGAGAAGCTACAAAACCTCCTATAATT  
 CAAGAAGAAAACCTAAGAAGAAGAAGAAGGCACAAGAGGACCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR202839 representing NM\_017319  
 Red=Cloning site Green=Tags(s)

MRFSCLLALLPGVALLLASALLASASDVLELTDENFESRVSDTGSAGLMLVEFFAPWCGHCKRLAPEYEAA  
 ATRLKGI VPLAKVDCTANTNTCNKYGVSGYPTLKIFRDGEEAGAYDGPRTADGIVSHLKKQAGPASVPLR  
 TEDEFKFIISDKDASVVGFFRDLFSDGHSEFLKAASNLRDNYRFAHTNVESLVKEYDDNGEGITIFRPLH  
 LANKFEDI VAYTEKMTSGKIKKFIQESIFGLCPHMTEDNKDLIQGKDLLTAYYDVDYKNTKGSNYWR  
 NRVMMVAKTFLDAGHKLNF AVASRKTFSHEL SDFLESTTGEIPVVAIRTAKEKFVMQEEF SRDGKALE  
 RFLQEYFDGNL KRYLKSEPIPETNEGPVKVVAESFDDI VNAEDKDVLEFYAPWCGHCKNLEPKYKELG  
 EKLKDPNIVIAKMDATANDVPSPEYVKGFPITIF SPANKKLT PKKYEGGRELNDLISYLQREATNPPII  
 QEEKPKKKKKAQEDL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

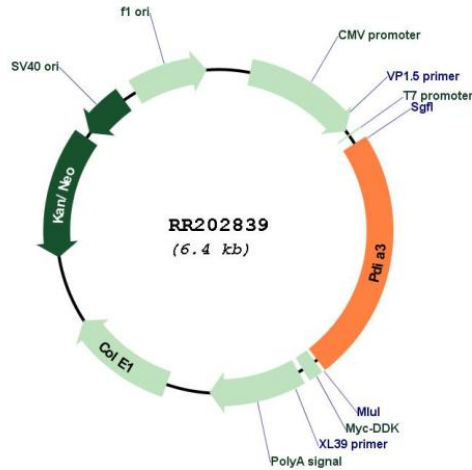
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



**ACCN:** NM\_017319

**ORF Size:** 1515 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\\_017319.1](#), [NP\\_059015.1](#)

**RefSeq Size:** 1874 bp

**RefSeq ORF:** 1518 bp

**Locus ID:** 29468

**UniProt ID:** [P11598](#)

**Cytogenetics:** 3q35

**MW:** 56.6 kDa

**Gene Summary:** interacts with thiazide-sensitive sodium-chloride cotransporter in the kidney and is induced by glucose deprivation [RGD, Feb 2006]