

## Product datasheet for **RR211078**

### **Pdia4 (NM\_053849) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pdia4 (NM_053849) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdia4
Synonyms:	ERp-72; Erp70; Erp72
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RR211078 representing NM\_053849  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGAAGCTCCGAAAGCTTGGCTGTTGGTCTGCTCTTGGCGCTGACACAGCTGCTGGCTGCTGCGAGCG  
CCGAAGATGCGCACGAAGATGCTTCAGATTTCAGAAAATCCCATGAGGATGACGACGAGGAGGAGGAAGA  
TGAAGAAGATGAAGATGACTTGAAGTTAAGGAAGAAAATGGTGTGGTCTAAACGATGAAAATTC  
GATAACTTTGGCTGACAAAGATACAGTCTCTGGAGTTCTATGCACCGTGGTGTGGACACTGCAAGC  
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GATTGACGCGACCTCAGCATCCATGTTGGCCAGCAAATTCGATGTGAGTGGCTACCCACCATCAAGATC  
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AAGTTTCCAGCCTGATTGGACACCTCCACCTGAAGTCACTCTTACATTGACTAAAGAGAACTTTGACGA  
TGTTGTAATAATGCAGACATCATTTTGGTGGAGTTCTATGCCCATGGTGGGACACTGCAAGAAAATT  
GCCCTGAGTATGAGAAGGCTGCCAAGGAGCTCAGCAAGCGCTCTCCCCAATTCCTTAGCCAAAGTTG  
ATGCCACCGAACAGACAGACCTGGCTAAGAGGTTTGTATGCTCTGGCTACCCCACTTTGAAAATATTCGG  
CAAAGGAAGGCCTTTTACTACAATGGTCCACGAGAGAAAATGGAATTGTTGACTACATGGTTGAGCAG  
TCTGGACCTCCTTCCAAGGAGATTCTGACCCTGAAGCAGGTCCAGGAGTTTCTGAAGGATGGAGATGATG  
TAGTCATCCTTGGAGTCTTTTCCAGGAGTCCGGTACCCAGGCTACTTGCAGTATCAGGATGCTGCTAACAC  
CCTGAGAGAAGATTACAAATTTACCACACTTTTCCAGTCAAGTATGAGCCAGGATGCATGTGATGGATG  
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CACAGCCAGTTCCCAAGAACAACAAGGGACCAGTCAAGGTGGTGTGGGGAAGACCTTTGATGCCATTGT  
GATGGACCCCAAAAAGGACGTCCTCATTGAATTCTATGCACCGTGGTGTGGGCACTGCAAGCAGCTGGAG  
CCTGTCTACACCAGCCTAGGCAAGAAGTACAAGGGCCAGAAGGACTTGGTCATCGCCAAGATGGATGCTA  
CTGCCAATGACATCACCACGACCGATACAAGGTGGAGGGCTTCCCACCATCTATTTGCCCCCAGTGG  
GGACAAAAGAACCCTAATTAAGTTTGGGGTGGCAACAGAGATCTGGAGCATTGAGCAAGTTTATCGAT  
GAACATGCCACAAAGAGGAGCAGGACCAAGGAAGAGCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR211078 representing NM\_053849  
 Red=Cloning site Green=Tags(s)

MKLRKAWLLVLLAL TQLLAAASAEDA HEDASDSENPIEDDDEEEDEEDEDLLEVKEENGVWVLDNF  
 DNFVADKDTVLLLEFYAPWCGHCKQFAPEYEKIASTLKDNDPPIAVAKIDATSASMLASKFDVSGYPTIKI  
 LKKGQAVDYDGSRTQEEIVAKVREVSQPDWTPPEVTLTKENFDDVVNNADIILVEFYAPWCGHCKKL  
 APEYEKAAKELSKRSPPIPLAKVDATEQTDLAKRFDVSQYPTLKI FRKGRPFDYNGPREKYGIVDYMVEQ  
 SGPPSKEILTLKQVQEF LKDGDDVVILGVFQGVGDPGYLQYQDAANTLRE DYKFHHTFSTEIAKFLKVS  
 LKGLVLMQPEKFQSKYEPRMHVMDVQGSTEASAIKDYVVKHDLPLVGHRTSND AKRYSKRPLVVVYVSVD  
 FSYDYRTATQFWRNKVLEVA KDFPEYTF AIADEEDYATEVKDLGLSESGEDVNAAILDES GKKFAMEPEE  
 FDS DALREFVMAFKKGLKPKVIK SQVPKNNKGPVRRVVGKTFDAIVMDPKKDV LIEFYAPWCGHCKQLE  
 PVYVTSLGKKYKQKDLVIAKMDATANDITNDRYKVEGFPTIYFAPSGDKKNPIKFEGGNRDLEHLSKFI  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

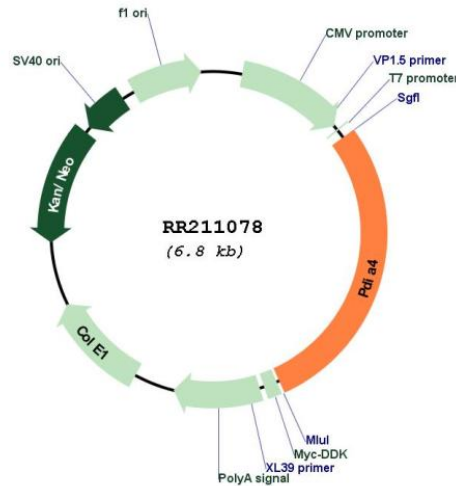
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_053849

**ORF Size:** 1929 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\\_053849.1](#), [NP\\_446301.1](#)

RefSeq Size:	2398 bp
RefSeq ORF:	1932 bp
Locus ID:	116598
UniProt ID:	<a href="#">P38659</a>
Cytogenetics:	4q24
MW:	72.8 kDa
Gene Summary:	intracisternal calcium-binding microsomal glycoprotein with significant protein disulfide isomerase activity [RGD, Feb 2006]