

## Product datasheet for **RR209708**

### **Pdia6 (NM\_001004442) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pdia6 (NM_001004442) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdia6
Synonyms:	CaBP1; P5; Txndc7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR209708 representing NM\_001004442  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGGTGATCAGCATGGCTCGACTAGTGCTCGGTCTGGTGAGCTGTACCTTCTTTCTAGCGGTCACTG  
 CTCTCTATTCTCCAGTGATGATGTCATCGAGTTAACGCCATCAAATTTCAACAGAGAAGTTATTACAGAG  
 TGATAGTCTGTGGCTTGTAGAATTTTATGCACCATGGTGTGGTCATTGCCAAAGGTTAACACCAGAGTGG  
 AAGAAAGCAGCAAGTGCCTGAAAGATGTTGTTAAAGTCGGTGCAGTCAATGCAGATAAACATCAGTCCC  
 TGGGAGGTCAGTATGGTGTCCAGGGATTCTACCATCAAGATATTTGGAGCTAACAAAAACAAACCAGA  
 AGATTACCAGGGTGGCAGAACTGGAGAAGCCATTGTAGATGCCGCCCTCAGTGTCTTGGCCAGCTTGTG  
 AAGGATCGCTTGGTGGCGAAGTGGCGGGTACAGTCTGGAAAGCAGGGCAGAGGTGATAGTTCAAGTA  
 AGAAGGACGTGGTCGAGCTGACGGATGACACCTTTGATAAGAATGCCTTGACAGTGAAGACGTTTGGAT  
 GGTGAGTTTTATGCTCCATGGTGTGGACTGCAAAAACCTGGAGCCAGAAATGGGCTGCTGCAGCCACA  
 GAGGTAAGGAGCAAACGAAGGAAAGGTGAAATTTGGCAGCCGTAGATGCCACCGTGAATCAGGTTCTGG  
 CCAGCCGGTATGGGATTAAGGATTCCTACAATCAAGATATTTAGAAAAGGCGAGTCTCCTGTGGACTA  
 TGATGGTGGACGGACGAGATCTGACATAGTGTCAAGGGCCCTGGATTTGTTCTCTGATAATGCGCCACCC  
 CCAGAGCTGCTCGAGATAATCAACGAAGACATAGCCAAGAAGACATGCGAGGAACACCAGCTCTGTGTGG  
 TGGCCGTGCTGCCTCACATCCTGGACACCGGAGCTACAGGTAGAACTCTTACTTGAAGTTCTTCTGAA  
 ACTGGCTGACAAGTACAAGAAGAAAATGTGGGGTGGCTGTGGACGGAAGCTGGAGCCAGTATGAGCTG  
 GAGAACGCACTAGGATCGGAGGGTTGGGTACCCTGCCATGGCAGCCATCAATGCCCGCAAGATGAAGT  
 TTGCTCTTCTCAAAGGCTCTTTCAGTGAACAAGGCATCAATGAGTTTCTCAGGAACTGTCTTTGGGCG  
 TGGCTCCACAGCACCCGTAGGGGGTGGTTCCTTCCTAACATCACTCCCAGGGAGCCCTGGGATGGCAAG  
 GATGGCGAGCTTCTGTGGAGGACGACATTGACCTCAGTATGTGGAGCTCGATGACCTAGAGAAGGACG  
 AGTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR209708 representing NM\_001004442  
 Red=Cloning site Green=Tags(s)

MRVISMARLVGLVSCFFLAVALYSSDDVIELTPSNFNREVIQSDSLWLVFYAPWCGHCQRLTPEW  
 KKAASALKDVVKVGAVNADKHQSLGGQYGVQGFPTIKIFGANKNKPEDYQGGRTGEAIVDAALSALRQLV  
 KDRLGGRSGGYSSGKQGRGDSSSKKDVVELTDDTFDKNVLDSEVWVMEFYAPWCGHCKNLEPEWAAAAAT  
 EVKEQTKGKVKLAAVDATVNQVLASRYGIKGFPTIKIFQKGEVVDYDGGRTSDIVSRALDLFSDNAPP  
 PELLEIINEDIAKKTCHEHQLCVAVLPHILDTGATGRNSYLEVLLKLADKYKKKMWGLWTEAGAQYEL  
 ENALGIGFGYPAMAAINARKMKFALLKGSFSEQGINEFLRELSFGRGSTAPVGGGSFPNITPREPWDGK  
 DGLPVEDDIDLSDVELDDLEKDEL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

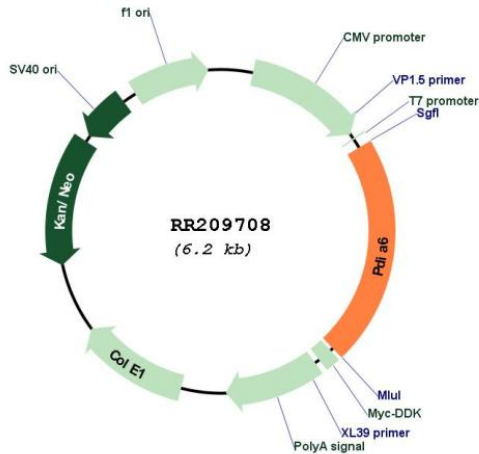
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001004442

**ORF Size:** 1335 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\\_001004442.1](#), [NP\\_001004442.1](#)

**RefSeq Size:** 1744 bp

**RefSeq ORF:** 1338 bp

**Locus ID:** 286906

**UniProt ID:** [Q63081](#)

**Cytogenetics:** 6q16

**MW:** 48.8 kDa

**Gene Summary:** May function as a chaperone that inhibits aggregation of misfolded proteins. Negatively regulates the unfolded protein response (UPR) through binding to UPR sensors such as ERN1, which in turn inactivates ERN1 signaling. May also regulate the UPR via the EIF2AK3 UPR sensor. Plays a role in platelet aggregation and activation by agonists such as convulxin, collagen and thrombin.[UniProtKB/Swiss-Prot Function]