

Product datasheet for **MC215906**

Pdia6 (NM_027959) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdia6 (NM_027959) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pdia6
Synonyms:	1700015E05Rik; AL023058; C77895; CaBP5; P5; Txndc7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC215906 representing NM_027959
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGGTGATCGGCATGGCTCGCTGGTCTCGGTGAGCTGCACCTTTTCTAGCAGTCAGCG
 GTCTGTATTCTTCTAGTGATGATGTCATCGAGTTGACCCATCAAATTTCAACAGAGAAGTTATTACAGAG
 TGACGGCCTGTGGCTTGTAGAATTTATGCACCATGGTGTGGTCACTGCCAGAGGTTAACACCAGAAATGG
 AAGAAAGCAGCAACGGCTTTGAAAGATGTTGTTAAAGTCGGGGCCGTCAATGCAGACAAACATCAGTCCC
 TGGGAGGTCAGTATGGTGTCCAGGGATTCTACCATCAAGATATTTGGAGCTAACAAAAACAAGCCAGA
 AGATTATCAGGGTGGCAGAACGGGAGAAGCCATTGTAGATGCCGCCCTCAGTGCCTTGCGCCAGCTCGTC
 AAGGATCGCCTTGGTGGCGGAGTGGTGGGTACAGTCTGGAAAGCAGGGCAGAGGTGATAGTTCAAGTA
 AGAAAGACGTGGTAGAGCTGACGGATGACACCTTTGATAAGAATGCCTTGACAGTGAAGACGTTTGGAT
 GGTGAGTTTTATGCTCCGTGGTGTGGACTGCAAAAACCTGGAGCCAGAATGGGCTGCTCGGGCTACA
 GAAGTAAAGGAGCAAACAAGGGAAAAGTGAAACTGGCAGCTGTGGATGCCACCATGAATCAGGTTCTGG
 CCAGCCGATACGGGATTAAGGATTCCCTACAATCAAGATATTTAGAAAAGGCGAGTCTCCTGTGGACTA
 TGATGGTGGTCCGACGAGATCTGACATAGTGTCAAGGGCCCTCGATTTGTTCTCTGATAATGCCCTCCT
 CCAGAGCTGCTTGAGATAATCAACGAAGACATAGCCAAGAAGACATGCGAGGAGCACCAGCTCTGTGTCC
 TGGCCGTAAGTGCCTCACATCCTGGACACTGGAGCTGCAGGCAGAACTCTTACTTGAAGTTCTTCTGAA
 ACTGGCTGACAAGTACAAGAAGAAGATGTTGGGGTGGCTGTGGACAGAAGCTGGAGCCAGTATGAACTG
 GAGAACGCACTAGGGATTGGAGGGTTCGGGTACCCTGCCATGGCAGCCATCAATGCACGCAAGATGAAAT
 TTGCTCTTCTCAAGGGGCTTTTCAGTGAACAAGGCATCAATGAGTTTCTCAGGAACTGTCTTTCGGGCG
 TGGCTCCACAGCACCCGTAGGGGGTGGTTCCTTTCCTACCATCACTCCAGGGAGCCCTGGGATGGCAAG
 GATGGTGAAGCTCCTGTGGAGGACGACATTGACCTCAGTACGTTGGAGCTGGATGACCTGGAGAAGGATG
 AGTTG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_027959
- Insert Size:** 1338 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_027959.3](#), [NP_082235.1](#)

RefSeq Size: 2125 bp

RefSeq ORF: 1338 bp

Locus ID: 71853

UniProt ID: [Q922R8](#)

Cytogenetics: 12 A1.1

Gene Summary: May function as a chaperone that inhibits aggregation of misfolded proteins (PubMed:24508390). Negatively regulates the unfolded protein response (UPR) through binding to UPR sensors such as ERN1, which in turn inactivates ERN1 signaling (By similarity). May also regulate the UPR via the EIF2AK3 UPR sensor (By similarity). Plays a role in platelet aggregation and activation by agonists such as convulxin, collagen and thrombin (By similarity).[UniProtKB/Swiss-Prot Function]