

Product datasheet for **MR207098**

Pdia6 (NM_027959) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR207098 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGGGTGATCGGCATGGCTCGCTGGTCTCGGTGAGCTGCACCTTTTCTAGCAGTCAGCG
 GTCTGTATTCTTCTAGTGATGATGTCATCGAGTTGACGCCATCAAATTTCAACAGAGAAGTTATTACAGAG
 TGACGGCCTGTGGCTTGTAGAATTTATGCACCATGGTGTGGTCACTGCCAGAGGTTAACACCAGAAATGG
 AAGAAAGCAGCAACGGCTTTGAAAGATGTTGTTAAAGTCGGGGCCGTCAATGCAGACAAACATCAGTCCC
 TGGGAGGTCAGTATGGTGTCCAGGGATTCTACCATCAAGATATTTGGAGCTAACAAAAACAAGCCAGA
 AGATTATCAGGGTGGCAGAACGGGAGAAGCCATTGTAGATGCCGCCCTCAGTGCCTTGCGCCAGCTCGTC
 AAGGATCGCCTTGGTGGCGGAGTGGTGGGTACAGTCTGAAAGCAGGGCAGAGGTGATAGTTCAAGTA
 AGAAAGACGTGGTAGAGCTGACGGATGACACCTTTGATAAGAATGCCTTGACAGTGAAGACGTTTGGAT
 GGTGAGTTTTATGCTCCGTGGTGTGGACTGCAAAAACCTGGAGCCAGAATGGGCTGCTCGCGCTACA
 GAAGTAAAGGAGCAAACAAGGGAAAAGTAAAACCTGGCAGCTGTGGATGCCACCGTGAATCAGGTTCTGG
 CCAGCCGATACGGGATTAAGGATTCCTACAATCAAGATATTTAGAAAAGGCGAGTCTCCTGTGGACTA
 TGATGGTGGTCCGACGAGATCTGACATAGTGTCAAGGGCCCTCGATTTGTTCTCTGATAATGCCCTCCT
 CCAGAGCTCCTTGAGATAATCAACGAAGACATAGCCAAGAAGACATGCGAGGAGCACCAGCTCTGTGTGC
 TGGCCGTACTGCCTCACATCCTGGACACTGGAGCTGCAGGCAGAACTCTTACTTGAAGTTCTTCTGAA
 ACTGGCTGACAAGTACAAGAAGAAGATGTTGGGGTGGCTGTGGACAGAAGCTGGAGCCCAGTATGAAGT
 GAGAACGCACTAGGGATTGGAGGGTTCGGGTACCCTGCCATGGCAGCCATCAATGCACGCAAGATGAAAT
 TTGCTCTTCTCAAGGGGCTTTTCAGTGAACAAGGCATCAATGAGTTTCTCAGGAACTGTCTTTCGGGCG
 TGGCTCCACAGCACCCGTAGGGGGTGGTTCCTTTCCTACCATCACTCCCAGGGAGCCCTGGGATGGCAAG
 GATGGTGAAGTCCCTGTGGAGGACGACATTGACCTCAGTACGTGGAGCTGGATGACCTGGAGAAGGATG
 AGTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207098 protein sequence
 Red=Cloning site Green=Tags(s)

MRVIGMARLVGLVSCFFLAVSGLYSSDDVIELTPSNFNREVIQSDGLWLVEFYAPWCGHCQRLTPEW
 KKAATALKDVVKVGAVNADKHQSLGGQYGVQGFPTIKIFGANKNKPEDYQGGRTGEAIVDAALSALRQLV
 KDRLGGRSGGYSSGKQGRGDSSSKKDVELTDDTFDKNVLDSEVWVMEFYAPWCGHCCKNLEPEWAAAAA
 EVKEQTKGKVKLAAVDATVNVQLASRYGIKGFPTIKIFQKGEVVDYDGGRTSRSDIVSRALDLFSDNAPP
 PELLEIINEDIAKKTCEEHQLCVAVLPHILDTGAAGRNSYLEVLLKLADKYKKKMVGWLWTEAGAQYEL
 ENALIGGFGYPAMAAINARKMKFALLKGSFSEQGINEFLRELSFGRGSTAPVGGGSFPTITPREPWDGK
 DGELPVEDDIDLSDVELDDLEKDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_027959

ORF Size: 1338 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_027959.1](#), [NM_027959.2](#), [NM_027959.3](#), [NP_082235.1](#)

RefSeq Size: 2125 bp

RefSeq ORF: 1338 bp

Locus ID: 71853

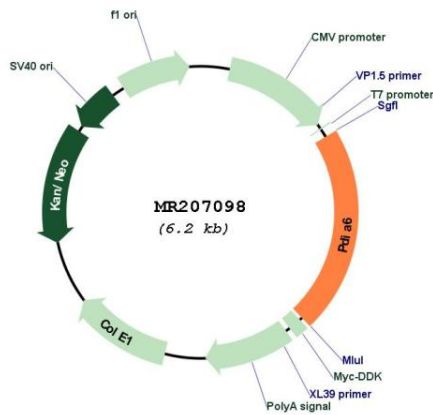
UniProt ID: [Q922R8](#)

Cytogenetics: 12 A1.1

MW: 48.7 kDa

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]

Product images:



Circular map for MR207098