

## Product datasheet for MR201058

### Pde6d (NM\_008801) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pde6d (NM\_008801) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pde6d  
**Synonyms:** AI841218; PrBP/delta  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201058 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCAGCCAAGGACGAGCGGGCCAGGGATATCCTGAGAGGCTTCAAACAAATTGGATGAACCTTCGGG  
 ATGCCGAAACAGGAAGATACTCTGGCAAGGAACAGAAGACCTGTCTGTCCCTGGTGTGGAACATGAAGC  
 CCGTGTGCCCAAGAAAATCCTCAAGTGAAGGCAGTGTCTCGAGAATTGAACTTTTCTTCAGCAGAACAA  
 ATGGAAAAATCCGCCTGGAACAAAAAGTTTACTTCAAAGGACAATGCCTAGAAGAGTGGTTCTTCGAGT  
 TTGGCTTTGTGATCCCTAACTCCACAAACACCTGGCAGTCCTTGATAGAAGCAGCGCCTGAGTCCCAGAT  
 GATGCCCGCCAGCGTCTAACGGCAATGTCATCATAGAGACAAAGTTCTTTGACGATGATCTTCTTGTG  
 AGCACATCCAAAGTGAGGCTTTTCTATGTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201058 protein sequence  
 Red=Cloning site Green=Tags(s)

MSAKDERARDILRGFKLNWMLRDAETGKILWQGTEDLSVPGVEHEARVPKILKCKAVSRELNFSAEQ  
 MEKFRLEQKVYFKGQCLEEWFEEFGFVIPNSTNTWQSLIEAAPESQMMPASVLTGNVIIETKFFDDLLV  
 STSKVRLFYV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**



**ACCN:** NM\_008801

**ORF Size:** 453 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\\_008801.3](#)

**RefSeq Size:** 1109 bp

**RefSeq ORF:** 453 bp

**Locus ID:** 18582

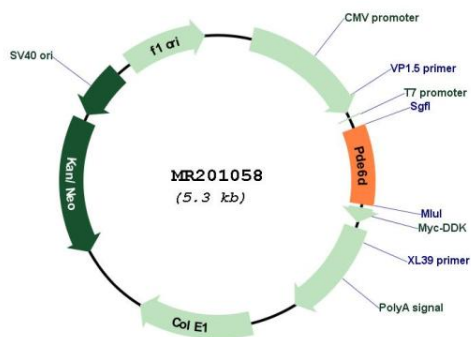
**UniProt ID:** [O55057](#)

**Cytogenetics:** 1 C5

**MW:** 17.3 kDa

**Gene Summary:** Promotes the release of prenylated target proteins from cellular membranes (PubMed:22179043). Modulates the activity of prenylated or palmitoylated Ras family members by regulating their subcellular location (PubMed:22179043). Required for normal ciliary targeting of farnesylated target proteins, such as INPP5E (By similarity). Modulates the subcellular location of target proteins by acting as a GTP specific dissociation inhibitor (GDI) (PubMed:22179043). Increases the affinity of ARL3 for GTP by several orders of magnitude. Stabilizes ARL3-GTP by decreasing the nucleotide dissociation rate.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201058