

## Product datasheet for **MC218815**

### **Pde1a (NM\_001159582) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde1a (NM_001159582) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pde1a
Synonyms:	AI987702; AW125737
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218815 representing NM\_001159582  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGTCTACTGATACGGACATCGAAGAATTGAAAAACGCCACTTACAAGTATCTCATTGGAGAACAGA  
 CCGAGAAGATGTGGCAGCGCCTGAAGGAATACTAAGATGCTTAGTGAAGCAGCTGGAGAAAGGTGATGT  
 CAACGTTGTTGACCTAAAGAAGAATATCGAATATGCAGCATCAGTACTGGAAGCTGTTTACATCGATGAG  
 ACAAGAAGACTGCTGGACACAGAGGATGAAGTCAAGCAGCATCCAGACTGACTCCGTCCTCCATCGGAAGTCC  
 GGGATTGGTTGGCTTCAACTTTACACGCAAAATGGGGATGATGAAAAAGAAGCCTGAAGAAAAACCAAA  
 GTTTCGCAGCATTGTCCATGCTGTCCAGGCTGGGATTTTGTGAAAGGATGTACAGGAAGAACTATCAC  
 ATGTTGGTTTGACATATCCTGCAGCTGCATAGTGACACTCAAGGAAGTTGATAAATGGTCTTTTGATG  
 TATTTGCCTTAAATGAAGCAAGCGGGGAGCATAGCCTGAAGTTTATGATTTATGAACTCTTACCAGATA  
 TGATCTTATCAACCGCTCAAGATTCCTGTTTCTTGCCTAATTGCCTTTCGAGAAGCCTTAGAAGTTGGT  
 TACAGCAAGCACAAAAATCCATATCATAATTTGGTCCATGCAGCTGACGCTCAACTGAACTGTGCATTATA  
 TAATGCTTCATACAGGTATCATGCACTGGCTCACTGAACTGGAAATTTAGCCATGGTCTTTCAGCTGC  
 CATTATGATTATGAGCACACAGGAACAACAACAACTCCATATTCAGACGAGGTCCGGACGTTGCTATT  
 CTGTACAACGACCGCTCAGTGTGAGAATCACCACGTGACGCGAGCCTACAGACTTATGCAAGAGGAGG  
 AAATGAATATTTGGTAAATTTGTCTAAAGATGACTGGAGGGATCTTCGGAACCTAGTGATTGAAATGGT  
 CTTAGCGACAGACATGTCAGGGCATTTCAGCAAATTAAGAAACAGCTTGCAGCAGCCGGAA  
 GGGATTGACAGAGCCAAAACATGTCCCTGATACTCCATGCAGCTGACATCAGCCACCCAGCCAAAACCT  
 GGAAGTTGCACTACAGATGGACCATGGCCCTAATGGAGGAGTTTTCTGCAGGGAGACAAGAAGCTGA  
 ATTAGGGCTTCCATTTTCTCACTTTGTGATCGGAAGTCAACAATGGTTGCCAGTCGCAATAGGTTTC  
 ATTGATTTCATAGTGGAGCCAACGTTTTCTCTCTGACGACTCAACAGAGAAAATTGTCATTCTCTTA  
 TAGAGGAAGCTTCAAAGTACAGTCTTCAAACACGGGGCAAGCAGCTCGTCCACCATGATTGGGTTCCA  
 TGTTGCTGACTCTGAGGCGGTCAAATACAAAAGGCTCCGTGTGTGATGGGAGCTATGCCCCAGACTAC  
 TCGCTCTCAGCTGTGGATCTGAAGAGTTTCAAAAACAACCTGGTGGACATCATTACAGCAGAAACAAGAGA  
 GGTGAAAGAGTTGGCTGCCAAGGTGAAGTTGATCTTCATAAGAAGTTCAGAAAGTTAGGAAATACTGA  
 AGAAAAGCATGCTGACACACGTCCATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001159582

**Insert Size:** 1638 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\\_001159582.1](#), [NP\\_001153054.1](#)

**RefSeq Size:** 4514 bp

**RefSeq ORF:** 1638 bp

**Locus ID:** 18573

**UniProt ID:** [Q61481](#)

**Cytogenetics:** 2 C3

**Gene Summary:** Cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes. Has a higher affinity for cGMP than for cAMP (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (2). Variants 1, 2, 10, and 11 all encode isoform 2.