

Product datasheet for **MC216278**

Pde1a (NM_001009979) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde1a (NM_001009979) 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: >MC216278 representing NM_001009979
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGATCTTTAGAAGACTGCTGGACACAGAGGATGAACTACGCGACATCCAGACTGACTCCGTCATCGG
 AAGTCCGGGATTGGTTGGCTTCAACTTTACACGCAAAATGGGGATGATGAAAAAGAAGCCTGAAGAAAA
 ACCAAAGTTTCGACGATTGTCCATGCTGTCCAGGCTGGGATTTTGTGGAAAGGATGTACAGGAAGAAC
 TATCACATGGTTGGTTTGACATATCCTGCAGCTGTATAGTGACACTCAAGGAAGTTGATAAATGGTCTT
 TTGATGTATTTGCCTTAAATGAAGCAAGCGGGAGCATAGCCTGAAGTTTATGATTTATGAACTCTTTAC
 CAGATATGATCTTATCAACCGCTTCAAGATTCCTGTTTCTTGCCTAATTGCCTTTGCAGAAGCCTTAGAA
 GTTGGTTACAGCAAGCACAAAAATCCATATCATAATTTGGTCCATGCAGCTGACGCTCAAACTGTGC
 ATTATATAATGCTTCATACAGGTATCATGCACTGGCTCACTGAAGTGGAAATTTAGCCATGGTCTTTGC
 AGCTGCCATTCATGATTATGAGCACACAGGAACAACAACAACCTCCATATTCAGACGAGGTCGGACGTT
 GCTATTCTGTACAACGACCGCTCAGTGCTTGAGAAATCACCACGTACGCGAGCCTACAGACTTATGCAAG
 AGGAGGAAATGAATATTTTGGTAAATTTGTCTAAAGATGACTGGAGGGATCTTCGAACTTAGTGATTGA
 AATGGTCTTAGCGACAGACATGTCAGGGCATTTCAGCAAATTAACAAATAAGAAACAGCTTGCAGCAG
 CCGGAAGGGATTGACAGAGCCAAAACATGTCCCTGATACTCCATGCAGCTGACATCAGCCACCCAGCCA
 AAACCTTGAAGTTGCACTACAGATGGACCATGGCCCTAATGGAGGAGTTTTTCTGCAGGGAGACAAAGA
 AGCTGAATTAGGGCTTCCATTTCTCCACTTTGTGATCGGAAGTCAACAATGGTTGCCAGTCGCAATA
 GGTTTCATTGATTTATAGTGGAGCCAACGTTTTCTCTCTGACGGACTCAACAGAGAAAATTGTCATTC
 CTCTTATAGAGGAAGCTTCAAAGTCACAGTCTTCAAACACGGGGCAAGCAGCTCGTCCACCATGATTGG
 GTTCCATGTTGCTGACTCTCTGAGCGGTCAAATACAAAAGGCTCCGTGTGTGATGGGAGCTATGCCCCA
 GACTACTCGTCTCAGCTGTGGATCTGAAGAGTTTCAAAAACAACCTGGTGGACATCATTAGCAGAAACA
 AAGAGAGGTGGAAAGAGTTGGCTGCCAAAGAACAAAAATCAATTCTACAGGAACAGCGTTGTTGC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001009979

Insert Size: 1398 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_001009979.1](#), [NP_001009979.1](#)

RefSeq Size: 1662 bp

RefSeq ORF: 1398 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 (9) differs in the 5' and 3' ends (UTR and coding sequence) compared to variant 1. The resulting isoform (9) has shorter and distinct N- and C-termini compared to isoform 2.