

Product datasheet for **MC218814**

Pde1a (NM_016744) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde1a (NM_016744) 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: >MC218814 representing NM_016744
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGTCTACTGATACGGACATCGAAGAATTGAAAAACGCCACTTACAAGTATCTCATTGGAGAACAGA
 CCGAGAAGATGTGGCAGCGCCTGAAGGAATACTAAGATGCTTAGTGAAGCAGCTGGAGAAAAGGTGATGT
 CAACGTTGTTGACCTAAAGAAGAATATCGAATATGCAGCATCAGTACTGGAAGCTGTTTACATCGATGAG
 ACAAGAAGACTGCTGGACACAGAGGATGAACTCAGCGACATCCAGACTGACTCCGTCATCGGAAGTCC
 GGGATTGGTTGGCTTCAACTTTACACGCAAAAATGGGGATGATGAAAAAGAAGCCTGAAGAAAAACAAA
 GTTTCGCAGCATTGTCCATGCTGTCCAGGCTGGGATTTTGTGAAAGGATGTACAGGAAGAACTATCAC
 ATGGTTGGTTTGACATATCCTGCAGCTGCATAGTGACACTCAAGGAAGTTGATAAATGGTCTTTTGATG
 TATTTGCCTTAAATGAAGCAAGCGGGGAGCATAGCCTGAAGTTTATGATTTATGAACTCTTACCAGATA
 TGATCTTATCAACCGCTCAAGATTCCTGTTTCTGCCTAATTGCCTTTCGAGAAGCCTTAGAAGTTGGT
 TACAGCAAGCACAAAAATCCATATCATAATTTGGTCCATGCAGCTGACGCTCACTCAAAGTGCATTATA
 TAATGCTTCATACAGGTATCATGCACTGGCTCACTGAACTGGAAAATTTAGCCATGGTCTTTGCAGCTGC
 CATTATGATTATGAGCACACAGGAACAACAACAACTTCCATATTCAGACGAGGTCCGGACGTTGCTATT
 CTGTACAACGACCGCTCAGTGTGAGAATCACCACGTGACGCGAGCCTACAGACTTATGCAAGAGGAGG
 AAATGAATATTTGGTAAATTTGTCTAAAGATGACTGGAGGGATCTTCGGAACCTAGTGATTGAAATGGT
 CTTAGCGACAGACATGTCAGGGCATTTCAGCAAATTAAGAAACAGCTTGCAGCAGCCGGAA
 GGGATTGACAGAGCCAAAATATGTCCCTGATACTCCATGCAGCTGACATCAGCCACCCAGCCAAAATCT
 GGAAGTTGCACTACAGATGGACCATGGCCCTAATGGAGGAGTTTTCTGCAGGGAGACAAGAAGCTGA
 ATTAGGGCTTCCATTTTCTCCACTTTGTGATCGGAAGTCAACAATGGTTGCCAGTCGCAATAGGTTTC
 ATTGATTTCATAGTGGAGCCAACGTTTTCTCTCTGACGACTCAACAGAGAAAATTTGTCATTCTCTTA
 TAGAGGAAGCTTCAAAGTACAGTCTTCAAACACGGGGCAAGCAGCTCGTCCACCATGATTGGGTTCCA
 TGTTGCTGACTCTGAGGCGGTCAAATACAAAAGGCTCCGTGTGTGATGGGAGCTATGCCCCAGACTAC
 TCGCTCTCAGCTGTGGATCTGAAGAGTTTCAAAAACAACCTGGTGGACATCATTACAGCAGAAACAAGAGA
 GGTGAAAAGAGTTGGCTGCCAAGGTGAAGTTGATCTTCATAAGAAGTTCAGAAAGTTAGGAAATACTGA
 AAAAAAGCATGCTGACACACGTCC**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_016744

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_016744.4](#), [NP_058024.2](#)

RefSeq Size: 4309 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 (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, 10, and 11 all encode isoform 2.