

Product datasheet for **MR216159**

Pde1a (NM_001159582) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde1a (NM_001159582) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde1a
Synonyms:	A1987702; AW125737
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR216159 representing NM_001159582
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGTCTACTGATACGGACATCGAAGAATTGAAAAACGCCACTTACAAGTATCTCATTGGAGAACAGA
 CCGAGAAGATGTGGCAGCGCCTGAAGGAATACTAAGATGCTTAGTGAAGCAGCTGGAGAAAAGGTGATGT
 CAACGTTGTTGACCTAAAGAAGAATATCGAATATGCAGCATCAGTACTGGAAGCTGTTTACATCGATGAG
 ACAAGAAGACTGCTGGACACAGAGGATGAACTCAGCGACATCCAGACTGACTCCGTCCCATCGGAAGTCC
 GGGATTGGTTGGCTTCAACTTTACACGCAAAATGGGGATGATGAAAAAGAAGCCTGAAGAAAAACAAA
 GTTTCGCAGCATTGTCCATGCTGTCCAGGCTGGGATTTTGTGGAAAGGATGTACAGGAAGAACTATCAC
 ATGGTTGGTTTGACATATCCTGCAGCTGTCATAGTGACACTCAAGGAAGTTGATAAATGGTCTTTTGATG
 TATTTGCCTTAAATGAAGCAAGCGGGGAGCATAGCCTGAAGTTTATGATTTATGAACTCTTACCAGATA
 TGATCTTATCAACCGCTCAAGATTCCTGTTTCTTGCCTAATTGCCTTTGCAGAAGCCTTAGAAGTTGGT
 TACAGCAAGCACAAAAATCCATATCATAATTTGGTCCATGCAGCTGACGTCACTCAAAGTGCATTATA
 TAATGCTTCATACAGGTATCATGCACTGGCTCACTGAACTGGAAATTTAGCCATGGTCTTTGCAGCTGC
 CATTATGATTATGAGCACACAGGAACAACAACAACTTCCATATTCAGACGAGGTCCGGACGTTGCTATT
 CTGTACAACGACCGCTCAGTGCTTGAGAATCACCACGTGACGCGAGCCTACAGACTTATGCAAGAGGAGG
 AAATGAATATTTGGTAAATTTGTCTAAAGATGACTGGAGGGATCTTCGGAAGTATGATTGAAATGGT
 CTTAGCGACAGACATGTCAGGGCATTTCAGCAAATTAAGAAACAGCTTGCAGCAGCCGGAA
 GGGATTGACAGAGCCAAAATATGTCCTGATACTCCATGCAGCTGACATCAGCCACCCAGCCAAAATCTG
 GGAAGTTGCACTACAGATGGACCATGGCCCTAATGGAGGAGTTTCTCTGCAGGGAGACAAAGAAGCTGA
 ATTAGGGCTTCCATTTTCTCCACTTTGTGATCGGAAGTCAACAATGGTTGCCAGTCGCAATAGGTTTC
 ATTGATTTCATAGTGGAGCCAACGTTTTCTCTCTGACGACTCAACAGAGAAAATTGTCATTCTCTTA
 TAGAGGAAGCTTCAAAGTACAGTCTTCAAACACGGGGCAAGCAGCTCGTCCACCATGATTGGTTCCA
 TGTTGCTGACTCTGAGGCGGTCAAATACAAAAGGCTCCGTGTGTGATGGGAGCTATGCCCCAGACTAC
 TCGCTCTCAGCTGTGGATCTGAAGAGTTTCAAAAACACCTGGTGGACATCATTACAGCAGAAACAAGAGA
 GGTGAAAAGAGTTGGCTGCCAAGGTGAAGTTGATCTTCATAAGAAGTACAGAAGAGTTAGGAAATACTGA
 AGAAAAGCATGCTGACACAGTCCA

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216159 representing NM_001159582
 Red=Cloning site Green=Tags(s)

MGSTDTDIEELENATYKYLIGEQTAKMWRQLKGI LRCLVKQLEKGDVNVVDLKKNIEYAASVLEAVYIDE
 TRRLLDTEDELSDIQTDSVPSEVRDWLASTFTRKMGMMKKKPEEKPKFRSIVHAVQAGIFVERMYRKNYH
 MVGLTYPAAVIVTLKEVDKWSFDVFALEASGEHSLKFMIEYELFTRYDLINRFKIPVSCLIAFAEALEVG
 YSKHKPNYHNLVHAADVTQTVHYIMLHTGIMHWL TELEILAMVFAAAIHDYEHTGTTNNFHIQTRSDVAI
 LYNDRSVLEHHVSAAYRLMQEEEMNIL VNL SKDDWRDLRNLVIEMVLATDMSGHFQQIKNIRNSLQQPE
 GIDRAKMSLILHAADISHPAKTWKLHYRWTMALMEEFFLQGDKEAELGLPFSPLCDRKSTMVAQSQIGF
 IDFIVEPTFSLLDSTEKIVIPLEIEEASKSQSSNYGASSSSTMIGFHVADSLRRSNTKGSVCDGSYAPDY
 SL SAVDLKSFKNLVDIIQQNKERWKELAAQGELDLHKNSEELGNTEEKHADTRP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001159582

ORF Size: 1635 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_001159582.1](#), [NP_001153054.1](#)

RefSeq Size: 4514 bp

RefSeq ORF: 1638 bp

Locus ID: 18573

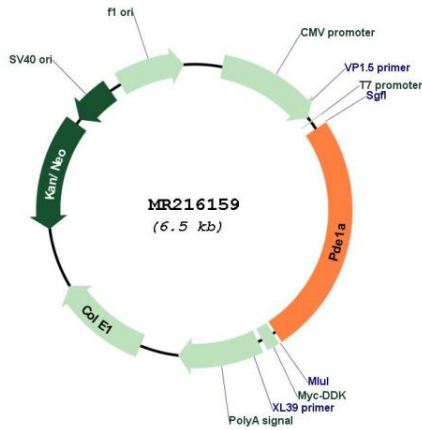
UniProt ID: [Q61481](#)

Cytogenetics: 2 C3

MW: 62.3 kDa

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]

Product images:



Circular map for MR216159