

Product datasheet for **MR208682**

Pde1a (NM_016744) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde1a (NM_016744) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde1a
Synonyms:	AI987702; AW125737
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208682 representing NM_016744
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGTCTACTGATACGGACATCGAAGAATTGAAAACGCCACTTACAAGTATCTCATTGGAGAACAGA
 CCGAGAAGATGTGCAGCGCCTGAAGGAATACTAAGATGCTTAGTGAAGCAGCTGGAGAAAGGTGATGT
 CAACGTTGTTGACCTAAAGAAGAATATCGAATATGCAGCATCAGTACTGGAAGCTGTTTACATCGATGAG
 ACAAGAAGACTGCTGGACACAGAGGATGAAGTCAAGCAGCATCCAGACTGACTCCGTCCTCCGGAAGTCC
 GGGATTGGTTGGCTTCAACTTTACACGCAAAATGGGGATGATGAAAAGAAGCCTGAAGAAAAACAAA
 GTTTCGCAGCATTGTCCATGCTGTCCAGGCTGGGATTTTGTGAAAGGATGTACAGGAAGAACTATCAC
 ATGGTTGGTTTGACATATCCTGCAGCTGCATAGTGACACTCAAGGAAGTTGATAAATGGTCTTTTGATG
 TATTTGCCTTAAATGAAGCAAGCGGGGAGCATAGCCTGAAGTTTATGATTTATGAACTCTTACCAGATA
 TGATCTTATCAACCGCTCAAGATTCCTGTTTCTGCCTAATTGCCTTTCGAGAAGCCTTAGAAGTTGGT
 TACAGCAAGCACAAAAATCCATATCATAATTTGGTCCATGCAGCTGACGTCACTCAAAGTGCATTATA
 TAATGCTTCATACAGGTATCATGCACTGGCTCACTGAACTGGAAATTTAGCCATGGTCTTTCAGCTGC
 CATTATGATTATGAGCACACAGGAACAACAACAACTTCCATATTCAGACGAGGTCCGACGTTGCTATT
 CTGTACAACGACCGCTCAGTGTGAGAATCACCACGTGACGCGAGCCTACAGACTTATGCAAGAGGAGG
 AAATGAATATTTGGTAAATTTGTCTAAAGATGACTGGAGGGATCTTCGGAAGTATGATTGAAATGGT
 CTTAGCGACAGACATGTCAGGGCATTTCAGCAAAATAAAAACATAAGAAACAGCTTGCAGCAGCCGGAA
 GGGATTGACAGAGCCAAAACATGTCCTGATACTCCATGCAGCTGACATCAGCCACCCAGCCAAAACCT
 GGAAGTTGCACTACAGATGGACCATGGCCCTAATGGAGGAGTTTTCTGCAGGGAGACAAGAAGACTGA
 ATTAGGGCTTCCATTTTCTCCACTTTGTGATCGGAAGTCAACAATGGTTGCCAGTCGCAATAGGTTTC
 ATTGATTTCATAGTGGAGCCAACGTTTTCTCTCTGACGACTCAACAGAGAAAATTGTCATTCTCTTA
 TAGAGGAAGCTTCAAAGTACAGTCTTCAAACACGGGCAAGCAGCTCGTCCACCATGATTGGTTCCA
 TGTTGCTGACTCTGAGGCGGTCAAATACAAAAGGCTCCGTGTGTGATGGGAGCTATGCCCCAGACTAC
 TCGCTCTCAGCTGTGGATCTGAAGAGTTTCAAAAACACCTGGTGGACATCATTACAGCAGAAACAAGAGA
 GGTGAAAAGAGTTGGCTGCCAAGGTGAAGTTGATCTTCATAAGAAGTTCAGAAAGTTAGGAAATACTGA
 AGAAAAGCATGCTGACACAGTCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208682 representing NM_016744
 Red=Cloning site Green=Tags(s)

MGSTDTDIEELENATYKYLIGEQTEKMWQRLKGI LRCLVKQLEKGDVNVVDLKKNIEYAASVLEAVYIDE
 TRRLLDTEDELSDIQTDSVPSEVRDWLASTFTRKMGMMKKKPEEKPKFRSIVHAVQAGIFVERMYRKNYH
 MVGLTYPAAVIVTLKEVDKWSFDV FALNEASGEHSLKFMIEYELFTRYDLINRFKIPVSCLIAFAEALEVG
 YSKHKPNYHNLVHAADVTQTVHYIMLHTGIMHWL TELEILAMVF AAAIHDYEHTGTTNNFHIQTRSDVAI
 LYNDRSVLENHHVSAAYRLMQEEEMNIL VNL SKDDWRDLRNLVIEMVLATDMSGHFQQIKNIRNSLQQPE
 GIDRAKMSLILHAADISHPAKTWKLHYRWTMALMEEF LQGDKEAELGLPFSPLCDRKSTMVAQSQIGF
 IDFIVEPTFSLLDSTEKIVIPLIEEASKSQSSNYGASSSSTMIGFHVADSLRRSNTKGSVCDGSYAPDY
 SL SAVDLKSFKNLVDIIQQNKERWKELAAQGELDLHKNSEELGNTEEKHADTRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9036_b08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_016744

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

RefSeq Size: 4309 bp

RefSeq ORF: 1638 bp

Locus ID: 18573

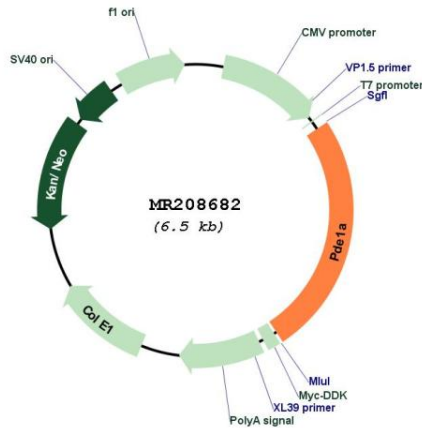
UniProt ID: [Q61481](#)

Cytogenetics: 2 C3

MW: 62.8 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 MR208682