

Product datasheet for **MG218401**

Pde1a (NM_001009979) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde1a (NM_001009979) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pde1a
Synonyms:	AI987702; AW125737
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218401 representing NM_001009979
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATCTTTAGAAGACTGCTGGACACAGAGGATGAACTACGCGACATCCAGACTGACTCCGTCATCGG
 AAGTCCGGGATTGGTTGGCTTCAACTTTACACGCAAAATGGGGATGATGAAAAAGAAGCCTGAAGAAAA
 ACCAAAGTTTCGACGATTGTCCATGCTGTCCAGGCTGGGATTTTGTGGAAAGGATGTACAGGAAGAAC
 TATCACATGGTTGGTTTGACATATCCTGCAGCTGTATAGTGACACTCAAGGAAGTTGATAAATGGTCTT
 TTGATGTATTTGCCTTAAATGAAGCAAGCGGGAGCATAGCCTGAAGTTTATGATTTATGAACTCTTTAC
 CAGATATGATCTTATCAACCGCTTCAAGATTCCTGTTTCTGCCTAATTGCCTTTGCAGAAGCCTTAGAA
 GTTGGTTACAGCAAGCACAAAAATCCATATCATAATTTGGTCCATGCAGCTGACGCTCAACTGTGC
 ATTATATAATGCTTCATACAGGTATCATGCACTGGCTCACTGAACTGGAAATTTAGCCATGGTCTTTGC
 AGCTGCCATTCATGATTATGAGCACACAGGAACAACAACAACCTCCATATTCAGACGAGGTCCGACGTT
 GCTATTCTGTACAACGACCGCTCAGTGCTTGAAGATCACCACGTCAGCGCAGCCTACAGACTTATGCAAG
 AGGAGGAAATGAATATTTTGGTAAATTTGTCTAAAGATGACTGGAGGGATCTTCGGAACCTTAGTGATTGA
 AATGGTCTTAGCGACAGACATGTCAGGGCATTTCAGCAAATTAACAAATAAGAAACAGCTTGCAGCAG
 CCGGAAGGGATTGACAGAGCCAAAACATGTCCCTGATACTCCATGCAGCTGACATCAGCCACCCAGCCA
 AAACCTTGGAAAGTTGCACTACAGATGGACCATGGCCCTAATGGAGGAGTTTTTCTGCAGGGAGACAAAGA
 AGCTGAATTAGGGCTTCCATTTCTCCACTTTGTGATCGGAAGTCAACAATGGTTGCCAGTCGCAATA
 GGTTTCATTGATTTATAGTGGAGCCAACGTTTCTCTCTGACGGACTCAACAGAGAAAATTTGTCATTC
 CTCTTATAGAGGAAGCTTCAAAGTCACAGTCTTCAAACACGGGGCAAGCAGCTCCACCATGATTGG
 GTTCCATGTTGCTGACTCTCTGAGGCGGTCAAATACAAAAGGCTCCGTGTGTGATGGGAGCTATGCCCA
 GACTACTCGTCTCAGCTGTGGATCTGAAGAGTTTCAAAAACAACCTGGTGGACATCATTAGCAGAAACA
 AAGAGAGGTGGAAAGAGTTGGCTGCCAAGAACAAAATCAATTCTACAGGAACAGCGTTGTTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG218401 representing NM_001009979
 Red=Cloning site Green=Tags(s)

MIFRRLDTEDELSDIQTDSVPSEVRDWLASTFTRKMGMMKKKPEEKPKFRSIVHAVQAGIFVERMYRKN
 YHMVGLTYPAAVIVTLKEVDKWSFDVFNALNEASGEHSLKFMIIYELFRYDLINRFKIPVSCLIAFAEAL
 VGYSKHKNPYHNLVHAADVQTQVHYIMLHTGIMHWL TELEILAMVFAAAIHDYEHTGTTNFIHQTRSDV
 AILYNDRSVLENHHVSAAYRLMQEEEMNILVNL SKDDWRDLRNLVIEMVLATDMSGHFQQIKNIRNSLQQ
 PEGIDRAKTMSLILHAADISHPAKTWKLHYRWTMALMEEFFLQGDKEAELGLPFSPLCDRSTMVASQSI
 GFIDFIVEPTFSLLDSTEKIVIPLIEEASKSQSSNYGASSSTMIGFHVADSLRRSNTKGSVCDGSYAP
 DYLSAVDLKSFKNLVDIIQQNKERWKELAAQEPKSIHQQRCC

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001009979

ORF Size: 1395 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_001009979.1](#), [NP_001009979.1](#)

RefSeq Size: 1662 bp

RefSeq ORF: 1398 bp

Locus ID: 18573

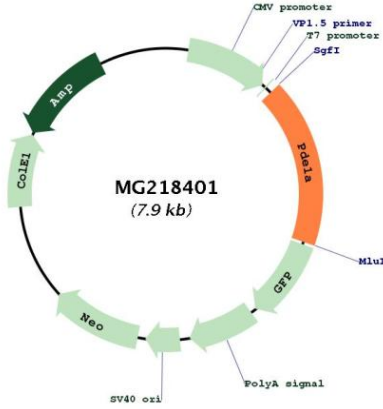
UniProt ID: [Q61481](#)

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]

Product images:



Circular map for MG218401