

Product datasheet for **MG218106**

Pde4a (NM_019798) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde4a (NM_019798) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pde4a
Synonyms:	D9Ertd60e; Dpde2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218106 representing NM_019798
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCTCTGGTTGACTTCTTCTGCGAGACCTGCTCCAAGCCCTGGCTGGTGGGCTGGTGGGACCAGTTTA
 AAAGGATGCTGAACCGGAACTCACACCTGTGCGAAAATGAGCAGGTCAGGAAACCAGGTCTCAGAGTA
 CATTTCCAACACGTTCTAGACAAGCAGCACGAAGTGGAGATCCCATCGCCCACGCCGCGACAGAGACCC
 TTCCAGCAGCCCCACCAGCAGCAGTGCAGCAGGCCAGCCATGTCTCAGATCACAGGGCTGAAAAAGC
 TGGTACACACCGGAAGCTTGAACATCAATGTCCCACGATTTGGAGTCAAGACAGATCAGGAGGACCTCTT
 AGCACAAGAACTGGAGAATTGAGCAAATGGGGCCTGAACATCTTTGTGTGTCGGAGTACGCTGGAGGC
 CGTTCCTCAGCTGTATCATGTATACGATATCCAGGAGCGGGACTTACTGAAGAAATCCACATCCCCG
 TGGACACCATGATGACATACATGCTGACGCTGGAGGACCTACCAGCTGACGTGGCCTACCACAACAG
 CCTGCACGCAGCCGATGTCTACAGTCCACACATGTGCTGCTGGCCACGCCTGCACTGGATGCCGTGTT
 ACAGACCTGGAGATTCCTGCTGCTCTTCGCTGCTGCCATCCATGACGTGGACCACCTGGCGTCTCCA
 ACCAGTTCCTAATCAACACCAATTCGGAGCTGGCATTGATGTACAACGATGAGTCTGTGCTTGAGAACCA
 CCACCTGGCTGTGGGATTCAAGCTGCTGCAAGAAGAGAAGTGCAGATCTTCCAGAACCTCAGCAAGCGC
 CAGCGGCAGAGCCTGCGCAAGATGGTCAATCGACATGGTGTGGCCACAGACATGTCCAAGCACATGACCC
 TTCTGGCTGACCTGAAGACTATGGTAGAGACGAAGAAAGTACCAGCTCTGGAGTTCTCTTGTGGACAA
 CTACTCTGACCGTATCCAGGTCCTCAGGAACATGGTGCCTGTGCAGACCTCAGCAATCCACCAAGCCC
 CTGGAGCTGTACGACAATGGACTGATCGCATCATGGCTGAGTTCTTCCAGCAGGGTGACCGAGAACGGG
 AACCGGAATGGAGATTAGCCCCATGTGTGACAAGCACACAGCCCTGTGGAGAAGTCTCAGGTGGGCTT
 CATCGACTATATTGTTACCCACTGTGGGAGACGTGGGCCGATCTCGTCCACCCCGATGCCCAAGACATC
 CTGGACACGCTGGAAGACAACCGGGATTGGTATCACAGTGCCATCCGCCAGAGTCCCTCCCCAACCTGG
 AAGAGGAGCCAGGAGTGCTCAGCGATCCGGCCCTGCCTGACAAGTTCCAATTTGAGCTCACCTTGAGGA
 AGAGGATGAAGAGGATTCATTGGAGTTCCAGGATTGCCTTGCACTGAGGAAACTCTCTGGCTCCACAT
 GATACCAGAGCTCAAGCCATGGAACAGTCAAAGGTCAAAGGCCAGAGCCCTGCTGTTGTGGAGGTAGCAG
 AGAGTTTGAAGCAGGAGACAGCCTCAGCACATGGCGCTCCTGAGGAGTCCGCGGAGGCTGTGGGCCATTC
 CTTCAGCCTTGAACCTCTATTCTGCTGACTTGAGGACCCTGTCCCCCTCAGAGGAGGCCAGGGCCCTC
 CTGGCCCTCCCCTCCATGGCGGCAGAGGTGGAGGCCCAAGAGACCATCTGGCTGCCATGAGGGCTTGT
 CTGCCTGCTCGGGACATCAGGAGACAATTCTGCCGTCATCTCTGCTCCAGGCAGGTGGGGTCAAGTGG
 AGACCCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218106 representing NM_019798
 Red=Cloning site Green=Tags(s)

MPLVDFFCETCSKPWLVGWWDQFKRMLNRELTHLSEMSRSGNQVSEYISNTFLDKQHEVEIPSPTPRQRP
 FQQPPPAAVQQAQPMSTITGLKKLVHTGSLNINVPRFGVKTDQEDLLAQELENLSKWGLNIFCVSEYAGG
 RSLSCIMYTIQERDLLKFFHIPVDTMMTYMLTLEDHYHADVAYHNSLHAADVLSQSTHVLLATPALDAVF
 TDLEILAAALFAAAIHDVDHPGVSNQFLINTNSELALMYNDESVLENHHLAVGFKLLQEENCDIFQNL SKR
 QRQSLRKMVIDMVLATDMSKHMTLLADLKTMTVETKKVTS SSVLLLDNYS DRIQVLRNMVHCADLSNP TKP
 LELYRQWTDRI MAEFFQQGDRERERGMESPMCDKHTASVEKSQVGFIDYIVHPLWETWADLVHPDAQDI
 LD TLEDNRDWHYSAIRQSPSPTLEEEPGVLSDPALPDKFQFELTLEEEDEEDSLEVPGLPCTEETLLAPH
 DTRAQAMEQSKVKGQSPAVVEVAESLKQETASAHGAPEESAEAVGHSF SLETSILPDLRTLSPSEEAQGL
 LGLPSMAAEVEAPRDHLAAMRACSACSGTSGDNSAVISAPGRWGS GGDPA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_019798

ORF Size: 1830 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_019798.5](#), [NP_062772.3](#)

RefSeq Size: 4150 bp

RefSeq ORF: 1833 bp

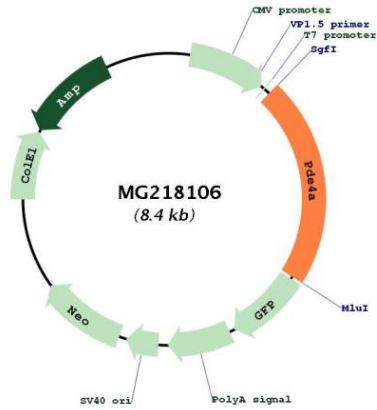
Locus ID: 18577

UniProt ID: [O89084](#)

Cytogenetics: 9 7.73 cM

Gene Summary: Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218106