

Product datasheet for **MR218307**

Pde2a (NM_001143848) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde2a (NM_001143848) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde2a
Synonyms:	CGS-PDE; cGSPDE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR218307 representing NM_001143848
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGCAGGCATGCGGCCACTCCATCCTCTGCAGGAGCCAGCAGTACCCGGCAGCGCAGCCGGCTGAGC
 CGCGGGGCCAGCAGGTCTTCTCAAGCCGACGAGCCGCCGCGAGCCATGCGCCGACAGCCTGCAGGA
 TGCTTTGCTGAGCCTAGGCGCCGTTATCGACATTGCTGGCCTGCGACAGGCTGCCAGGGATGCCCTCTCA
 GCCGTGCTCCCCAAAGTGGAGACTGTCTACACCTACCTGCTAGATGGGGAGTCCAGACTGGTGTGTGAGG
 ACCCCCCATGAGCTGCCACAGGAAGGAAAAATTCGAGAAGCTGTGATCTCTCAGAAGCGGCTGAGTTG
 CAATGGGTGGGACCTTCGGACCTACTGGGAAAGCCCTTGCCAGGCTGGTGGCTCCACTGGCTCCTGAC
 ATGCAAGTGTGGTCATACCCCTGCTGGACAAGGAGACTGGAAGTGTGGCAGCTGTCATCTTGGTGCCT
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 GAGGGTGCAGGCCCTGCAGCAGCGCAGGCTGAAGCTGTTCAAGACACGTCAGTGGATGCCTCTGAAGAT
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 CCTCTGCTGGTGTGGGAGACAATCTACAGCTTCTCTGCAAGGTCATTGGAGACAAAGTGTGGGAGAA
 GAGGTCAGCTTTCCATTGACCATGGGACGCTCTGGGGCAGGTGGTGAAGACAAGCAGTGTATCCAGTTGA
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 TTGGTGTGGCTGAGCTAGTGAACAAGATCAATGGGCCATGGTTCAGCAAGTTTGTGAGGACCTGGCCAC
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 TTCTCCAGATGGCATCCAACCTGTGGCCGCAATTGACTCCAACCTTTGCCAATTTACCTACACGCCTCG
 GTCTCTGCCTGAGGACGACACTTCTATGGCCATCCTGAGCATGCTGCAAGACATGAACCTCATCAATAAC
 TACAAAATTGACTGCCAACTCTGGCCGATTCTGCCTGATGGTGAAGAAAGGCTACCGGGATCCACCTT
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 CAACTACCTCGAGGACATCGAGATCTTTGCATTGTTTATTTCTGCTGATGTGTCATGACCTGGACCACAGA
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 CTTCTCTCGAAGGACTATCAGCGCATGCTGGACCTGATGAGGGACATCATCTTGGCTACAGACCTGGCA
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 GGCCTCCAACCGTGAAGCACTGGACCAAGGTGTCCACAAGTTCACCATCCGAGGCTCCCGAGTAAACAAC
 TCGCTGGATTTCTGTGACGAGGAATACGAGGTCCCGATTTGGACGGCACCAGAGCTCCTGTCAATGGCT
 GCTGCAGCCTCGAGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218307 representing NM_001143848
 Red=Cloning site Green=Tags(s)

MGQACGHSILCRSQYPAARPAEPRGQVFLKPDEPPPQPCADSLQDALLSLGAVIDIAGLRQAARDALS
 AVLPKVETVYTYLLDGE SRLVCEDPPHELPOEGKIREAVISQKRLSCNGLGPSDLLGKPLARLVAPLAPD
 MQVLVIPLLDKETGSVAIVILVHCGQLSDSEEQSLQVVEKHALVALRRVQALQRRRPEAVQNTSVDASED
 QKDEKGYTDHDKILQLCGELFDL DATSLQLKVLQYLQQTQATHCCLLLVSEDNLQLSCKVIGDKVLGE
 EVSFPLTMGRLGQVVEDKQCIQLKDLTSDDVQQLQNMLGCELQAML CVPVISRATDQVVALACAFNKLGG
 DFPTSSFTDEDEHVIQHC FHYTGTVL TSTLAFQKEQKLKCECQALLQVAKNLFTHLDDVSVLLQEITEA
 RNL SNAEICSVFLLDQNELVAKVFDGGVVDDES YEIRIPADQGIAGHVATTGQILNIPDAYAHLF YRGV
 DDSTGFRTRNILCFPIKNENQEVIGVAELVNKINGPWFSKFDLATAFSIYCGISIAHSLLYKKVNEAQ
 YRSHLANEMMYHMKVSDDEYTKLLHDGIQPVAAIDSNFANFTYTPRSLPEDDTSMAIL SMLQDMNF INN
 YKIDCPTLARFCLMVKKGYRDPYHNWMHAFSVSHFCYLLYKNELESNYLEDIEIFALFISCMCHDL DHR
 GTNNSFQVASKSVLAALYSSEGSVMERHHFAQAIAILNTHGCNIFDHF SRKDYQRM LDMRDII LATDLA
 HHLRIFKDLQKMAEVGYDRNNRQHRL LLLCLMTSCDLSDQTKGWKTTRKIAELIYKEFFSQGDLEKAMG
 NRPMEEMMDREKAYIPELQISFMEHIAMPYKLLQDLFPKAAELYERVASNREHWTKVSHKFTIRGLPSNN
 SLDFLDEEYVPLDGTTRAPVNGCCSLEG

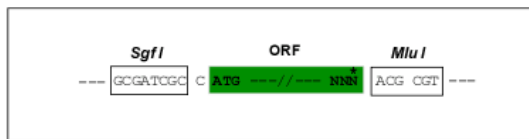
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9037_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



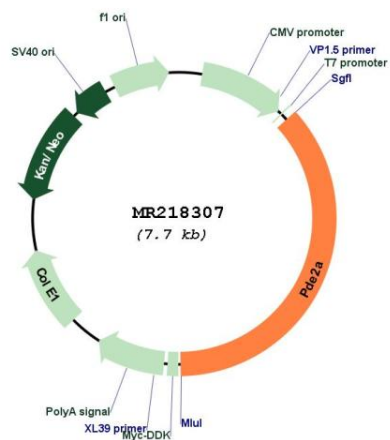
* The last codon before the Stop codon of the ORF

ACCN: NM_001143848

ORF Size: 2817 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:	<ol style="list-style-type: none">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_001143848.2 , NP_001137320.1
RefSeq Size:	4227 bp
RefSeq ORF:	2820 bp
Locus ID:	207728
UniProt ID:	Q922S4
Cytogenetics:	7 E2
MW:	106.1 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. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218307