

## Product datasheet for **RR209589**

### **Pde1a (NM\_030871) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde1a (NM_030871) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde1a
Synonyms:	3'-RACEclone8phosphodiesterase1A; 3-RACEclone8phosphodiesterase1A
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR209589 representing NM\_030871  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGCTCTACAGATACAGACATCGAAGAAGTGGAAAACGCCACTTACAAGTATCTCATTGGAGAACAGA  
 CCGAGAAGATGTGGCAACGCCTGAAAGGAATACTAAGATGCTTAGTGAAGCAGCTGGAGAAAAGGTGATGT  
 CAACGTTGTGACCTAAAGAAGAATATCGAATATGCGGCATCTGTACTGGAAGCTGTTTACATCGACGAG  
 ACGAGGAGGCTTCTGGATACTGAGGATGAGCTCAGCGACATTCAGACCGACTCGGTTCTTCGGAAGTCC  
 GGGACTGGTTGGCTTCAACCTTTACACGAAAAATGGGGATGACGAAAAAGAAACCCGAGGAAAAACCGAA  
 GTTTCGCAGCATTGTCCACGCTGTCCAGGCTGGGATTTTGTGGAAAGGATGTACAGGAAGAACTATCAC  
 ATGGTTGGTTTGACATATCCTGCAGCTGTCATAGTGACACTCAAGGAAGTTGATAAATGGCTTTTGTATG  
 TATTTGCCTTAAATGAAGCAAGCGGGGAGCATAGTCTGAAGTTTATGATTTATGAACTATTTACCAGTAA  
 TGATCTTATCAACCGCTCAAGATTCCTGTTTCTTGCCTAATTGCCTTTGCAGAAGCTTTAGAAGTTGGT  
 TACAGCAAGCACAAAAATCCGTATCATAATTTGGTCCATGCAGCTGATGTCACTCAAAGTGCATTACA  
 TAATGCTTCATACAGGTATCATGCACTGGCTCACTGAACTGGAATCTTAGCCATGGTCTTTGCAGCCGC  
 CGTTTCATGACTATGAACACACAGGAACTACAAACAACTCCATATTCAGACGAGGTGAGCGTCGCCATT  
 CTGTATAACGACCGCTCAGTTCTTGAGAATCACCATGTCAGCGCAGCCTACAGACTTATGCAAGAGGAGG  
 AAATGAATATTTGGTAAATTTATCTAAAGATGACTGGAGGGATCTTCGGAACCTAGTGATTGAAACGGT  
 CTTAGCAACAGACATGTCAGGCCATTTCCAGCAAATTAAGAAAGCAGCTTGCAGCAGCCTGAA  
 GGGATTGACAGAGCCAAAACGATGTCCTGATACTCCACGACCCGACATCAGCCACCCAGCCAAAACGT  
 GGAAGTGCACACAGGTGGACTATGGCCTTAATGGAGGAATTTTCTGCAGGGAGACAAAGAAGCTGA  
 ATTAGGGCTTCCGTTTTCTCCACTTTGTGATCGGAAGTCAACGATGGTTGCCAGTCTCAAATAGGTTTC  
 ATTGATTTCATAGTGGAGCCAACGTTTTCTCTCCTGACAGACTCGACAGAAAAATTGTTATTCCTCTTA  
 TAGAGGAAGCTTCAAACACAGAGTCTTCTAACTATGGGGCAAGCAGCTCGTCCACCATGATTGGTTCCA  
 TGTTGCTGACGCTCTGAGGCGGTCAAACACAAAAGGCTGCATGAGTGATGGGACCTATGCCCCAGACTAC  
 TCTCTGCAGCTGTGGACCTGAAGAGCTTCAAAAAACCTGGTGGACATCATTACAGCAGAAACAGGAGA  
 GGTGAAAAGAGTTGGCTGCCAAGGCGAACTTGATCTTCATAAGAAGTCAAGAAGACTAGAAGAAAAAGCA  
 TGCTGACACACATCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR209589 representing NM\_030871  
 Red=Cloning site Green=Tags(s)

MGSTDDIEELENATYKYLIGEQTEKMWQRLKILRCLVKQLEKGDVNVVDLKKNIEYAASVLEAVYIDE  
 TRRLDTEDELSDIQDTSVPSEVRDWLASTFTRKMGMTKKKPEEKPKFRSIVHAVQAGIFVERMYRKNYH  
 MVGLTYPAAVIVTLKEVDKWSFDVFNALNEASGEHSLKFMIEYELFTSNDLINRFKIPVSCLIAFAEALVVG  
 YSKHKNPYHNLVHAADVTQTVHYIMLHTGIMHWLLEILAMVFAAAVHDYEHTGTTNHFHIQTRSDVAI  
 LYNDRSVLENHHVSAAYRLMQEEEMNILVNL SKDDWRDLRNLVIETVLATDMSGHFQKIKNIRSSLQQPE  
 GIDRAKMSLILHAADISHPAKTWKLHYRWTMALMEEFFLQGDKEAELGLPFSPLCDRKSTMVAQSQIGF  
 IDFIVEPTFSLLDSTEKIVIPLEIEASKPESSNYGASSSSTMIGFHVADALRRSNTKGCMSDGYAPDY  
 SL SAVDLKSFKNLVDIIQQNKERWKELAAQGELDLHKNSDLEEKHADTHP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

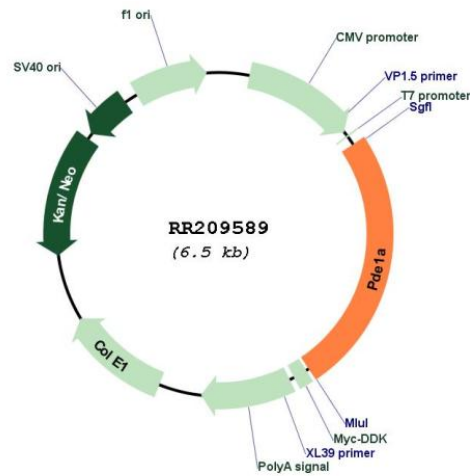
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_030871
<b>ORF Size:</b>	1626 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_030871.1</a> , <a href="#">NP_110498.1</a>
<b>RefSeq Size:</b>	2081 bp
<b>RefSeq ORF:</b>	1629 bp
<b>Locus ID:</b>	81529
<b>Cytogenetics:</b>	3q24
<b>MW:</b>	61.9 kDa
<b>Gene Summary:</b>	expression in the hippocampus increases in response to electroconvulsive shock [RGD, Feb 2006]