

## Product datasheet for **RN207204**

### **Pde7a (NM\_031080) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde7a (NM_031080) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pde7a
Synonyms:	PDE7-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN207204 representing NM\_031080  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGTATGCTACCAGCTGCCGGTGCTGCCCTGGACAGGCCGGTCCCCAGCAGTCTCAGCCGCC  
 GAGGAGCCATCAGCTTCCAGCTCCAGCTCGGCGCTCTTCGCTGCCCGCATCCCCGGCAGCTCTCGCAGAG  
 ACGTGGAGCTATTTCTATGACGTTCTGATCAGACTGCGTTATATATTTCGTATGCTAGGAGATGTCGGA  
 GTGAGGAGCCGAGCAGGATTTGAGACAGAAAGAAGAGGTTCCACCCGTACATTGACTTCCGATTTTTTC  
 ACGCTCAATCTGAAATTGAAGCATCCGCTCCGCCAGAAACATCAGAAGGCTGCTCAGTTCCAGCGGTA  
 TCTCAGATCCTCACGATTTTTTCGGGGTGCCACAGTTTGTAGATCTTTAAATATTTAGATGAGGATTAC  
 AATGGACAAGCCAAGTGTATGCTGGAAAAAGTTGGAATTTGATATCTTTCTGTTTGATAGAC  
 TAACAAATGGAATAGTCTAGTAAGCTTAACCTTTCAATTTAGTCTTCATGGATTGATTGAGTACTT  
 CCATTTAGATATGGTAAACTCCGTCGATTTTTAGTTATGATTCAAGAAGATTACCACAGTCAAAATCCT  
 TACCACAATGCAGTCCATGCTGCAGATGTTACCCAGGCCATGCACTGTTACTTAAAGGAACCTAAGCTTG  
 CCAATCTGTAATCCTTGGGATATCTTCTGCTGAGCTTAATTGCAGCTGCCACTCATGATCTGGATCACCC  
 AGGTGTTAATCAGCCATTTCTCATTAAAACCAACCATTACTTGGCAACTTTATACAAGAATACCTCAGTC  
 CTGGAGAATCACCAGTGGAGATCTGCCGTGGGCTTGTGAGAGAATCTGGTCTGTTCTCACACTTGCCAT  
 TGGAAAGCAGGCATGAGATGGAGGCTCAGATAGGTGCTTTGATACTAGCCACGGACATCAGTCGCCAGAA  
 TGAGTACCTGTCATTGTTAGATCTCACTTGGATAAAGGTGACTTACACCTTGACGATGGCAGACATAGG  
 CATTGGTTCTACAGATGGCCTGAAATGTGCTGATATTTGTAACCCATGTCGGAATGGGAATTAAGCA  
 AGCAGTGGAGTGAAAAAGTAACGGAGGAATCTCCACCAAGGGGATAGAAAAAAGTACCATTTGGG  
 TGTGAGTCCACTTTGTGATCGTCAGACTGAGTCTATTGCCAACATCCAGATTGGTTTTATGACTTACCTA  
 GTGGAGCCTTTATTTACAGAGTGGGCCAGGTTTTCCAGACACGAGGCTGTACAGACGATGCTCGGACAGC  
 TGGGGCTGAATAAAGCCAGCTGGAAGGGACTACAAAGACAACAGCCTAGCAGCGAGGATGCCAGTCTGC  
 ATTTGAGTTGAACTCACAGCTATTAACCTCAGGAAAATCGGTTATCA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1927\\_c03.zip](https://cdn.origene.com/chromatograms/ja1927_c03.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_031080

**Insert Size:** 1449 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<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>	<u><a href="#">NM_031080.1</a></u> , <u><a href="#">NP_112342.1</a></u>
<b>RefSeq Size:</b>	3156 bp
<b>RefSeq ORF:</b>	1449 bp
<b>Locus ID:</b>	81744
<b>Cytogenetics:</b>	2q24
<b>Gene Summary:</b>	may regulate cAMP signaling events in the brain, particularly those related to memory, depression, and emesis [RGD, Feb 2006]