

## Product datasheet for **RR207204**

### **Pde7a (NM\_031080) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde7a (NM_031080) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde7a
Synonyms:	PDE7-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry2 (PS100063)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR207204 representing NM\_031080  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAGTATGCTACCAGCTGCCGGTGTGCCCTGGACAGGCCGGTCCCCAGCAGCTCCTCAGCCGCC  
 GAGGAGCCATCAGCTTCCAGCTCCAGCTCGGCGCTCTTCGGCTGCCCGCATCCCCGGCAGCTCTCGCAGAG  
 ACGTGGAGCTATTTCTATGACAGTTCTGATCAGACTGCGTTATATATTTCGTATGCTAGGAGATGTCGGA  
 GTGAGGAGCCGAGCAGGATTTGAGACAGAAAGAAGAGGTTCCACCCGTACATTGACTTCCGTATTTTTC  
 ACGCTCAATCTGAAATTGAAGCATCCGTCTCCGCCAGAAACATCAGAAGGCTGCTCAGTTCCAGCGGTA  
 TCTCAGATCCTCAGATTTTTTCGGGGTGCCACAGTTTGTAGATCTTTAAATATTTAGATGAGGATTAC  
 AATGGACAAGCCAAGTGTATGCTGGAAAAAGTTGGAATTTGGAATTTGATATCTTTCTGTTTGATAGAC  
 TAACAAATGGAATAGTCTAGTAAGCTTAACCTTTCATTTATTTAGTCTTCATGGATTGATTGAGTACTT  
 CCATTTAGATATGGTAAACTCCGTCGATTTTTAGTTATGATTCAAGAAGATTACCACAGTCAAAATCCT  
 TACCACAATGCAGTCCATGCTGCAGATGTTACCCAGGCCATGCAGTGTACTTAAAGGAACCTAAGCTTG  
 CCAATTCGTAACCTCCTGGGATATCTTCTGCTGAGCTTAATTGCAGCTGCCACTCATGATCTGGATCACCC  
 AGGTGTTAATCAGCCATTTCTCATTAAAACCAACCATTACTTGGCAACTTTATACAAGAATACCTCAGTC  
 CTGGAGAATCACCAGTGGAGATCTGCCGTGGGCTTGTGAGAGAAATCTGGTCTGTTCTCACACTTGCAT  
 TGGAAAGCAGGCATGAGATGGAGGCTCAGATAGGTGCTTTGATACTAGCCACGGACATCAGTCGCCAGAA  
 TGAGTACCTGTCATTGTTAGATCTCACTTGGATAAAGGTGACTTACACCTTGACGATGGCAGACATAGG  
 CATTGGTTCTACAGATGGCCTGAAATGTGCTGATATTTGTAACCCATGTCGGAACCTGGGAATTAAGCA  
 AGCAGTGGAGTGAAAAAGTAACCGAGGAATCTTCCACCAAGCGGATATAGAAAAAAGTACCATTGCGG  
 TGTGAGTCCACTTTGTGATCGTCAGACTGAGTCTATTGCCAACATCCAGATTGGTTTTATGACTTACCTA  
 GTGGAGCCTTTATTTACAGAGTGGGCCAGGTTTTTCAGACACGAGGCTGTACAGACGATGCTCGGACACG  
 TGGGGCTGAATAAAGCCAGCTGGAAGGGACTACAAAGACAACAGCCTAGCAGCGAGGATGCCAGTCTGC  
 ATTTGAGTTGAACTCACAGCTATTAACCTCAGGAAAATCGGTTATCAATTTGAGTTGAACTCACAGCTATT  
 AACTCAGGAAAATCGGTTATCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR207204 representing NM\_031080  
 Red=Cloning site Green=Tags(s)

MEVCYQLPVLPLDRPVPQHVLSRRGAISSFSSSALFGCPHPRQLSQRRGAI SYDSSDQ TALYIRMLGDVR  
 VRSRAGFETERRGSHPYIDFRIFHAQSEIEASVSARNIRRLSFQRYLRSSRFFRAGATVCRSLNILD EY  
 NGQAKCMLKVGWVNFIDFLFDRLTNGNSLVSLTFHLFSLHGLIEYFHLDMVKLRFLVMIQEDYHSQNP  
 YHNAVHAADVTQAMHCYLKEPKLANSVTPWDILLSLIIAAATHDL DHPGVNQPFLIKTNHYLATLYKNTSV  
 LENHHWRSVAVGLLRESGLF SHLPLESRHEMEAQIGALILATDISRQNEYSLFRSHLDKGDHLHDDGRHR  
 HLVLQMALKCADICNPCRNWELSKQWSEKVT EEFHQGDIEKKYHLGVSPLCDRQTESIANIQIGFMTYL  
 VEPLFTEWARFSDTRLSQTMLGHVGLNKASWKGLQRQQPSS EDASAAFELNSQLLTQENRLSI\*VELTAI  
 NSGKSVI

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/jc1597\\_e05.zip](https://cdn.origene.com/chromatograms/jc1597_e05.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_031080

ORF Size: 1446 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](#)

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 Size:	3156 bp
RefSeq ORF:	1449 bp
Locus ID:	81744
Cytogenetics:	2q24
MW:	55.4 kDa
Gene Summary:	may regulate cAMP signaling events in the brain, particularly those related to memory, depression, and emesis [RGD, Feb 2006]