

## Product datasheet for **RR200665**

### **Pde9a (NM\_138543) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde9a (NM_138543) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde9a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR200665 representing NM\_138543  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCGCGCTCCTCAAGCTACCGGCCAAGGCCATCTACCTGGACATCGATGGACGCATCCAGAAGG  
 TGGTTTTAGCAAGTATTGTAACCTCAGTGACATCATGGACCTGTTCTGTATCGCCACCGCCTGCCACG  
 GAATACCACCATCTCCCTTCTGACCACAGACGACGCCATGGTCTCCATCGATCCCACCATGCCTGCGAAT  
 TCAGAGCGAACTCCCTACAAGGTGAGACCTGTGGCTGTCAAGCAAGTGTCTGAAAGAGAAGAACTCGTCC  
 AGGGTGTGCTGGCCCAAGTGGCGGAACAATTCTCCAGAGCGTTAAGATCAACGAGCTGAAAGCTGAAGT  
 TGCGAATCACCTGGCCATGCTGGAGAAACGGGTGGAATTGGAAGGACTCAAAGTGGTGGAGATCGAAAA  
 TGCAAGAGTGATATTAAGAGATGCGGGAGGAGCTGGCAGCTAGAAACAACAGGACCAACTGTCCCTGTA  
 AATACAGTTTTTTGGATAACAAGAAGTTGACACCTCGACGTGATGTCCCACTTACCCCAAGTACCTGCT  
 CTCCCCAGAAACCATTGAAGCCCTACGGAAGCCACCTTTGATGTCTGGCTTTGGGAACCCAATGAGATG  
 CTGAGCTGTTTAGAGCATATGTACCATGACCTTGGTCTGGTCAAGGACTTCAAGATCAACCCAATCACAC  
 TCCGCAGGTGGCTGCTCTGTGTGCATGACAACACAGGAGCAACCCCTTCCACAACCTCCGGCAGTCTT  
 CTGTGTGACACAGATGATGTACAGCATGGTCTGGCTCTGTGGCCTCCAGGAGAAGTTTTCCAGATGGAC  
 ATCTTGGTCTGATGACCGCAGCCATCTGCCATGACCTGGACCACCCAGGGTACAACAACACATACCAGA  
 TCAACGCCCGCACGGAAGTACGGGTGCGCTACAACGACATCTCGCCGCTGGAGAACCACCAATGCGCCAT  
 CGCCTTCCAGATCCTGGCGAGACCCGAGTGCAACATCTTCGCCAGCGTCCCGCTGAGGGCTTACGGCAG  
 ATCAGGCAGGGGATGATCACGTTGATCTTGCCACCGACATGGCAAGGCACGCTGAAATATGGATTCTT  
 TCAAAGAAAAAATGGAGAATTTTACTACAGCAATGAGGAGCATCTGACCCTGCTGAAGATGATCCTCAT  
 AAAATGCTGTGACATCTCCAATGAGTCCGTCATGGAGGTGGCAGAACCCTGGGTGGACTGTTTTACTG  
 GAAGAATATTTTATGAGAGTGACCGCGAGAAGTCCGAAGGCCTTCTGTGGCCCAATTCATGGACCGAG  
 ACAAAAGTACCAAAGCGACAGCCCAAATTTGGTTTCAAGTTTGTCTGATCCCAATGTTTGAACAGT  
 GACCAAGCTTCCCAATGTCGAGGAGACCATGCTGCGGCTCTCTGGGAGTCCCGAGAACACTACGAG  
 GAACTGAAGCAGCTGGACGACGCCATGAAGGAGCTGCAGAAGAAGACGGAGAACTTAACATCTGGGGCCA  
 CGGAAAACGCCCCAGAGAAGACCAGAGATGCGAAAACAATGAAGACCGTTCGCCTCCAAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR200665 representing NM\_138543  
 Red=Cloning site Green=Tags(s)

MGAGSSSYRPAIYLDIDGRIQKVVFSKYCNSSDIMDLFCIATGLPRNTTISLLTTDDAMVSIPTMPAN  
 SERTPYKVRPVAVKQVSEREELVQGVLAQVAEQFSRAFKINELKAEVANHLAMLEKRVELEGLKVVEIEK  
 CKSDIKKMREELAARNRNTNCPCKYSFLDNKLTTPRRDVPTYPKYLLSPETIEALRKPTFDVWLWEPNEM  
 LSCLEHMYHDLGLVRDFSINPITLRRWLLCVHDNYRSNPFHFRHCFVQMMYSMVWLCGLQEKFSQMD  
 ILVLMTAAICHDLHPGYNNTYQINARTELAVRYNDISPLENHCAIAFQILARPECNIFASVPPEGFRQ  
 IRQGMITLILATDMARHAEIMDSFKEKMFNDYSNEEHLTLLKMILIKCCDISNEVRPMEVAEPWVDCLL  
 EEFYMQSDREKSEGLPVAPFMDRDKVTKATAQIGFIKFVLIIPMFETVTKLFPIVEETMLRPLWESREHYE  
 ELKQLDDAMKELQKKTENLTSGATENAPEKTRDAKDNDERSPPN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

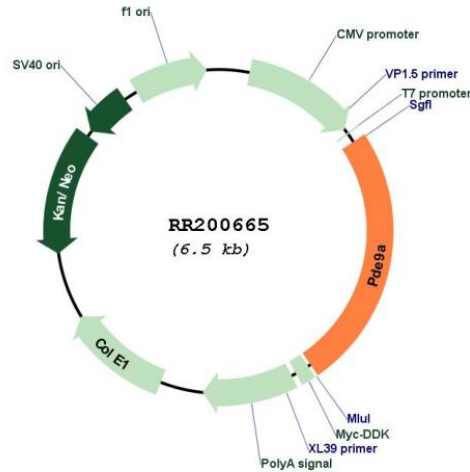
Cloning Scheme:

Cloning sites used for ORF Shutting:



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

Plasmid Map:



ACCN: NM\_138543

ORF Size: 1602 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\\_138543.1](#), [NP\\_612552.1](#)

**RefSeq Size:** 2079 bp

**RefSeq ORF:** 1605 bp

**Locus ID:** 191569

**UniProt ID:** [Q8QZV1](#)

**Cytogenetics:** 20p12

**MW:** 61.8 kDa

**Gene Summary:** mediates maintenance of low cGMP levels in cells; may play a role in cGMP-mediated signal transduction [RGD, Feb 2006]