

Product datasheet for **RR200213**

Pde11a (NM_001127481) Rat Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Pde11a (NM_001127481) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Pde11a |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RR200213 representing NM_001127481
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCTGGGTTATGCAGATGTATCTTCCATTCTGTGGCATCGCCATATCTAATGCTCAGCTCTTCGCCG
 CCTCGAGGAAAGAATATGAAAGAAGTAGGGCCTTGCTGGAGGTGGTCAATGACCTTTTGAAGAACAGAC
 TGACCTGGAAAAGATTGTCAAGAAAATAATGCATCGGGCCAAACTCTGTTGAAATGTGAACGCTGTTCC
 GTTTTACTTCTAGAAGACATTGAATCACCAGTGGTGAAGTTTACCAAATCCTTTGAACTGATGTCCCAA
 AGTGCAGTGGGACGCGGAGAACAGTTTCAAAGAAAGTGTGGAGAAGTCATCTTACTCCGACTGGCTGAT
 AAATAACAGTATCGTGTAGCTGGTTGCTTCGACAGGCCTCTCTGTGAATGTCAGCGATGCCTACCAGGAC
 CCACGCTTTGACGCTGAGGCTGACCAGATATCTGGCTTTCATATAAGATCTGTTCTCTGTGTCCCTATTT
 GGAACAGCAACCACAAATAATAGGGTTCGCTCAAGTGTGAACAGACTCGATGGGAAACCTTTTGTATG
 TGCTGACCAAAGGCTTTTGTAGGCTTTTGTATCTTTTGTGGCCTTGGTATTAACAACACGATTATGAT
 GACCAAGTGAAGAAGTCCTGGGCCAAGCAGTCCGTGGCTCTTGATGTGCTGTCTACCACGCCACGTGTT
 CCAAGGCTGAAGTTGACAAGTTTAAAGCAGCCAACATCCCCTGGTGTCCGAACTGGCCATCGATGACAT
 CCATTTTGTGACTTTTCCCTTGATGTTGATGCCATGATCACAGCCGCTCTACGGATGTTTATGGAGCTG
 GGGATGGTACAGAAATTTAAATCGACTATGAGACCCTGTGCAGGTGGCTTCTGACAGTAAGGAAAAACT
 ATCGGATGGTTCTTACCACAACGGAGACATGCCTTCAACGTGTGCCAGCTGATGTTTGGCATGCTAAC
 TACTGTGGGTTTCAAGAGATTCGACCGAGGTGGAAATTTAGCGGTGATTGTGGGATGCCTGTGTGAT
 GACCTCGACCACAGGGGAACCAACAATGCCTTCAAGCTAAGAGTACTGACTGACCTGGCCAGCTCTATG
 GGACCTCAGCGACCTTAGAGCATCACCACTTTAACCCAGCCGTGATGATCCTTTCAGAGTGGGATCACA
 CATCTTTGCTAATTTGTCTCCAAGGAATACAGCGACCTCATGCAGCTCCTGAAGCAGTCGATACTAGCC
 ACTGACCTCACGCTGACTTCGAGAGAAGAACTGAGTTCTTCGAGCTTGTGAGTAAAGGAGCCTATGATT
 GGAGCATCACAAGTCACCGCATGTGTTTCGATCAATGTTAATGACAGCTTGTGACCTTGGAGCCGTGAC
 CAAACCGTGGGAGATCTCCAGACAGGTGGCTGAACTTGTACCAGCGAGTTCTTCGAACAAGGAGATCGG
 GAGAGGTGGAACTCAAGCTCACCCCTCTGCTATTTTGTACCGGAAACCGAAAGATGAGCTGCCTCGGC
 TGCAACTGGAGTGGATTGACAGCATCTGCATGCCTTTGTATCAGGCTTGGTGAAGTCAATGCAAACT
 GAAGCCGATGCTGGACTCAGTGGCCGCCAACCGCAGGAAGTGGGAAGAGTGCACCAAAAAGACTACAG
 GTCTCTGTGCCTCCCCAGTCCCTCCAGTCCCAGCCCAGCGGTGGCCGGAGAGGACAGACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200213 representing NM_001127481
 Red=Cloning site Green=Tags(s)

MSWVMQMYLPFCGIAISNAQLFAASRKEYERSRALLEVNDLFEEQTDLEKIVKKIMHRAQTLKLCERCS
 VLLLEDIESPVVFKTSFELMSPKCSADAENSKESVKESSYSDWLNNSIAELVASTGLPVMVSDAYQD
 PRFDAEADQISGFHIRSVLCVPIWNSNHQIIGVAQVLRNLDGKPFDDADQRLFEAFVIFCGLGINNTIMY
 DQVKKSWAKQSVLDVLSYHATCSKAEDKFKAAANIPLVSELAIDDIHFDDFSLDAMDAMITAALRMFMEL
 GMVQKFKIDYETLCRWLLTVRKNYRMVLYHNWRHAFNVCQLMFAMLLTAGFQEILTEVEILAVIVGCLCH
 DLDRGTNNAFQAKSDSALAQLYGTSATLEHHHFNHAVMILQSEGHNIFANLSSKEYSDLMQLLKQSILA
 TDLTLYFERRTEFFELVSKGAYDWSITSHRDVFRSMLMTACDLGAVTKPWEISRQVAELVTSEFFEQGD
 ERSELKLTPSAIFDRNRKDELPRQLQLEWIDSICMPLYQALVKVNAKLPMLDSVAANRRKWEELHQKRLQ
 VSAASVPVSSPSPAVAGEDRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

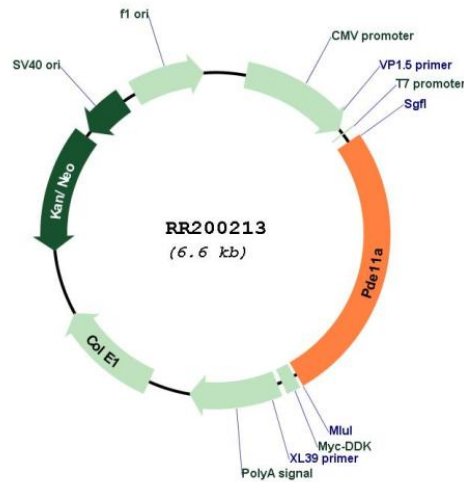
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_001127481

| | |
|-------------------------------|---|
| ORF Size: | 1743 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_001127481.2 , NP_001120953.1 |
| RefSeq Size: | 3096 bp |
| RefSeq ORF: | 1746 bp |
| Locus ID: | 140928 |
| UniProt ID: | Q8VID6 |
| Cytogenetics: | 3q23-q24 |
| MW: | 66.1 kDa |
| Gene Summary: | hydrolyzes cyclic nucleotides cAMP and cGMP, downregulating their activity [RGD, Feb 2006] |