

Product datasheet for RR212921

Pde3a (NM_017337) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pde3a (NM_017337) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pde3a
Synonyms: RNPDE3A
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212921 representing NM_017337
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCAGTGGGGGCGAGGCCGCCAAGACTGGGCCAAGCCGGTCTCCGAGGGCCGAGTCTGCCCGG
 TGGCCAGAGGGGACCACCGCTGTCGTGGCGGTCCCTTCATCCCCTCGGGGCTCGGGCTGTTGTTGGCG
 AGCCCTGGCGTTGCAGCCTCTCCGGCGCTCGCCGCAACTCTCCTCCGCGTTGTGCGCGGGCTCCCTGTCC
 GTGCTGCTGGCGCTGCTGGTGAAGCTGGTGGCGGGGAGGTTCGGAGGCGAGCTGGAGTCGAGTCAGGAGG
 CGGCGGCCGAGGAGGAGGAGGAAGGAGCCGAGGGGGCGTCTTCCCGGGCCCTCGGGGAGGTGCTCC
 CGGGGGCGGGCGCGCAGCTCAGCCCTTGGCTGCAGCCGGCCGCGCTGCTCTCAGTCTCCTGTGCGCCTTC
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 CGCGGGGTCTGCTCAGCTGCCTAGGTGGCGGACATGGCTGGTGTGAGGCTGAGGCTGGGCGTCCCTC
 ATGGTCGCTTTGACTAGCGCCCTCAGGACGGTGGCCCTGGTTTCTCTGGAGAGTTCAAGGTCCGCTGGA
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 GCAGTGTCCGGCCGGCTCCGCCAGGAGCGGTTTGGGTCCAGTCGAGCGCGAGGACCAAGGAAGAG
 ATTCGGGGTGGAAAGAGGAGGAGCGGTCCAGCTCGGTGGTGGCCGCGAGATGTCGGGCTGCGGTGGCA
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 AGCCCTTACCCAGTGTGTAACCTGACTCTTGAATGCCCCAGTGTGATGACTCTAACCAAAAGC
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GTGGCCTTGATAAGATTCGCCCGTTCCCTCGCCCTCCTCCTCACCTCCTCAAGGATCACCCACCAGCAG
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Protein Sequence:

>RR212921 representing NM_017337
 Red=Cloning site Green=Tags(s)

MAVRGEAAQDWAKPGLRGPSPAPVARGDHRRCGGSPSSPRGSGCCWRALALQPLRRSPQLSSALCAGSL
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 FWMGLCLLRAGVRLPLAVALLAACCAGEALVQLSLGVGDGRLLSLPAAGVLLSCLGGATWLVLRLRLGVL
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 HGLITDLLADPSLPPNVCTSLRAVSNLLSTQLTFQAIHKPRVNPVTFTSENYTCSDEEGLEKDKLAIPK
 RLRRSLPPGLLRVSSWTWTTSATGLPTLEPAPVRRDRSASIKPHEAPSPSAVNPDSWNAVLMTLTKS
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 SHRALTYTQSAPDLSPQIPSPVICSSCRPYSQGNPADGPSERSGPA MQKPNRTDDTSQVTSDYETNNN
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 ENIGRKCGRILSQVSYRLFEDMGLFEAFKIPVREFMNYFHALEIGYRDIPIYHNRIHATDVLH
 PIPGLPSVIGDHGSASDSDSGFTHGHMGYVFSKAYHVPDDKYGCLSGNIPALELMALYVAAAMHDYD
 HPGRTNAFLVATSAPQAVLYNDRSVLENHAAAAWNLFMSRPEYNFLVNLDHVEFKHFRFLVIEAILATDL
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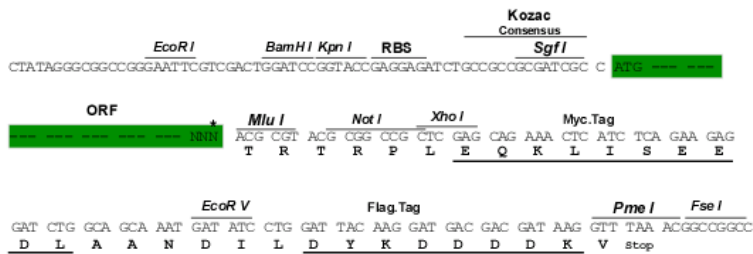
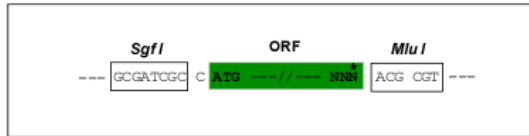
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

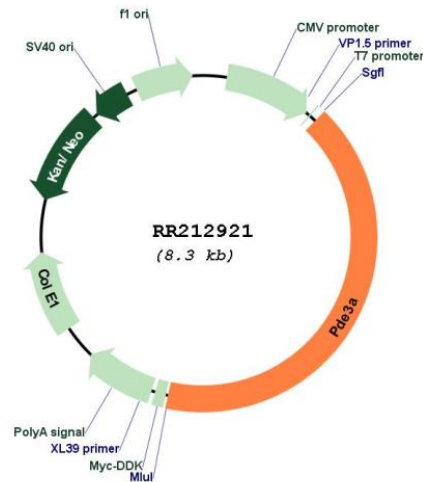
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_017337

ORF Size: 3423 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_017337.1](#), [NP_059033.1](#)

RefSeq Size: 3426 bp

RefSeq ORF: 3426 bp

Locus ID: 50678

UniProt ID: [Q62865](#)

Cytogenetics: 4q44

MW: 124.3 kDa

Gene Summary: plays a role in cyclic nucleotide degradation; may be involved in oocyte maturation [RGD, Feb 2006]