

Product datasheet for **RR205789**

Pde4b (NM_017031) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde4b (NM_017031) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde4b
Synonyms:	PDE4/IVb; Pde4B1; Pde4B2; Pde4B3; Pde4B4; Pde4b5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RR205789 representing NM_017031
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAGCAAAAAATTCTTCCAAGAAGCTTCCAGCTTCTGAATCTGAGGTTTGCATAAAGACTTTCAAGG
 AGCAGATGCGCTTGGAACTTGGCTTCCAAGCTACCAGGAAACAGACCTACATCTCCAAAAATTTCTCC
 ACGCAGTTCACCAAGGAATTCACCATGCTTTTTAGAAAAGTTGCTGGTGAATAAAAAGCATCCGACAGCGG
 CGTCGCTTCACTGTGGCTCATACATGCTTTGATGTGAAAATGGCCCTTCTCCAGGTCGGAGCCCACTGG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RR205789 representing NM_017031
Red=Cloning site Green=Tags(s)

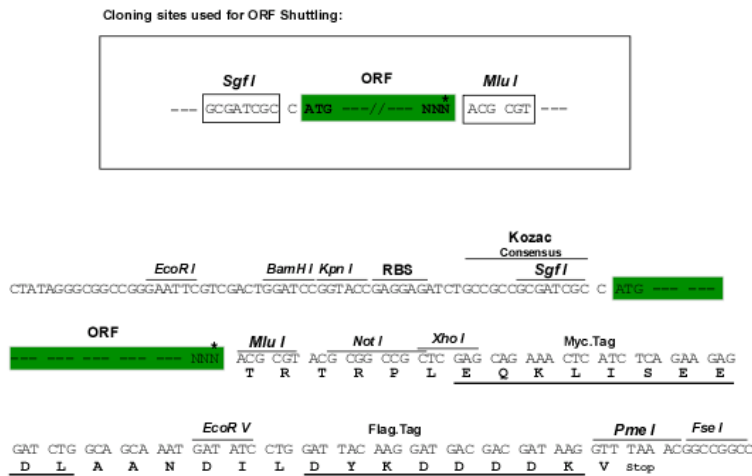
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PSEQHGDDLIVTFPAQVLAASLRIVRNNTLLTNLHGAPNKRSPAASQAPVTRVSLQEEESYQKLAMETLEE
LDWCLDQLETIQTYRSVSEMASNKFKRMLNRELTHLSEMSRSGNQVSEYISNTFLDKQNDVEIPSPTQKD
REKKKKQQLMTQISGVKMLMHSSSLNNTSISRFGVNTENEDHLAKELEDLNKWGLNIFNVAGYSHNRPLT
CIMYAIQERDLLKTFKISSDTFVYMMTLEDHYHSDVAYHNSLHAADVAQSTHVLLSTPALDAVFTDLE
ILAAIFAAAIIHDVDHPGVSNQFLINTNSELALMYNDESVLNHHLAVGFKLLQEEHCDIFQNLTKKQRQT
LRKMVIDMVLATDMSKHMSSLLADLKTMTVETKKTSSGVLLEDNYTDRIQVLRNMVHCADLSNPTKSELEY
RQWTRIMEEFFQQGDKERERGMEISPMCDKHTASVEKSQVGFIDYIVHPLWETWADLVQPAQDILDTL
EDNRNWFQSMIPQSPSPPLDERSRDCQGLMEKFQFELTLEEDSEGPEKEGEGPNYFSSTKTLCIDPEN
RDSLEETDIDIATEDKSLIDTRDSLEETDIDIATEDKSLIDT
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1609_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_017031

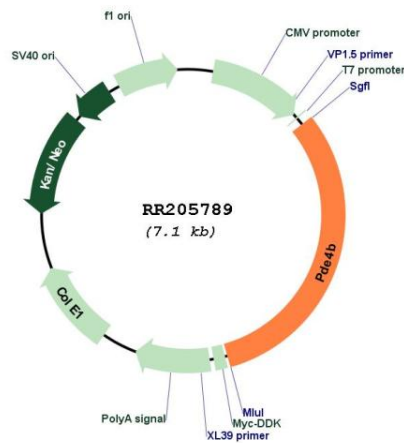
ORF Size: 2163 bp

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 Size:** 3133 bp
- RefSeq ORF:** 2166 bp
- Locus ID:** 24626
- UniProt ID:** [P14646](#)
- Cytogenetics:** 5q33
- MW:** 82.1 kDa
- Gene Summary:** contains four isoforms expressed from the same gene; isoform Pde4b4 has cAMP specific phosphodiesterase activity and is inhibited by rolipram [RGD, Feb 2006]

Product images:



Circular map for RR205789