

## Product datasheet for **MR207320**

### **Pde1b (BC058531) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde1b (BC058531) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde1b
Synonyms:	Pde1b1, 63kDa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207320 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCTGTCCCCCGCAGTCCTCCAGAGATGCTGGAGTCGGATTGCCCGTACCCTGGAGCTGAAGT  
 CAGCCCCAGCAAGAAAATGTGGATTAAGCTACGGTCTCTGCTGCGCTACATGGTGAAGCAGTTGGAGAA  
 TGGGGAGGTTAACATCGAGGAGCTGAAGAAAACTGGAATACACAGCTTCCCTGCTGGAAGCTGTCTAC  
 ATTGATGAGACAAGGCAAATCCTAGACACTGAAGATGAGCTTCGGGAAGCTTCGGTCAGATGCTGTGCCTT  
 CAGAGGTGCGGGACTGGTTGGCCTCCACCTTACCACAGCAGACCCGAGCCAAAGGTCGCAGGGCAGAAGA  
 GAAACCAAGTCCGAAGCATCGTGCATGCTGTGCAGGCTGGGATCTTCGTGGAGCGGATGTTCCGGAGA  
 ACGTATACCTCTGTGGGCCCCACATACTACTGCAGTCCACAAGTGTCTCAAGAACCTGGACCTCTGGT  
 GCTTTGATGTCTTTTCTTGAACCGGGCAGCCGATGACCAGCTCTGAGGACCATTGTTTTTGGATTGCT  
 GACTCGGCATAGCCTCATCAGCCGCTTAAAGATCCCACAGTGTCTCTGATGAGTTTTCTGGAGGCTTG  
 GAGACAGGCTATGGGAAATATAAGAATCCTTACCACAACAGATCCACGCAGCCGACGTGACCCAGACTG  
 TCCATTGCTTCTTCTCCGCACAGGCATGGTGCCTGCCTGTGAGAGATTGAGGTCTTGGCCATCATCTT  
 TGCTGCAGCCATCCATGACTATGAGCACACAGGCACAACCAACAGCTTCCACATTCAGACCAAGTCAGAA  
 TGTGCCATCCTGTACAATGATCGATCGGTGCTGGAGAAATCACCACATCAGCTCTGTCTTTTGAATGATGC  
 AGGATGATGAGATGAACATTTTTATCAATCTCACAAGGATGAATTTGCAGAGCTGCGGGCCCTGGTTAT  
 CGAGATGGTGTGGCCACAGACATGTCTGCCATTTCCAGCAAGTGAAGACTATGAAGACAGCACTGCAG  
 CAGTTGGAAGGATTGACAAGTCCAAGGCCCTATCTTCTGCTTCATGCTGCTGACATCAGCCACCCAA  
 CTAAGCAGTGGTCAGTCCACAGCCGCTGGACCAAGGCCAATGGAAGAGTTCTTCCGCCAGGTCAGCAA  
 GGAGGCAGAGCTGGGCCCTGCCCTTCTCTCCACTCTGTGATCGCACTTCCACATTGGTGGCCAGTCCCAG  
 ATAGGTTTCATTGACTTCATTGTGGAGCCAACCTTCTCTGTGCTGACTGATGTGGCAGAAAAGAGTGCC  
 AGCCCTTGGCAGATGATGATTCCAAGCCTAAAAGTCAGCCAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207320 protein sequence  
 Red=Cloning site Green=Tags(s)

MELSPRSPPEMLESDCPSPLELKSAPSKMWIKLRSLRYMVKQLENGEVNIEELKKNLEYTASLLEAVY  
 IDETRQILDTEDELRELRSDAVPSEVRDLASTFTQQTRAKGRRAEKPKFRSIVHAVQAGIFVERMFRR  
 TYTSVGPITYSTAVHNCLKNLDLWCFDVFSLNRAADDHALRTIVFELLTRHSLISRFKIPTVFLMSFLEAL  
 ETGYGKYKNPYHNQIHAADVTQTVHCFLLRTGMVHCLSEIEVLAIFAAAIIHDYEHTGTTNSFHIQTKSE  
 CAI LYNDRSVLENHHISSVFRMMQDDEMNI FINLTKDEF AELRALVIEMVLATDMSCHFQQVKMTALQ  
 QLERIDKSKALSLLLHAADISHPTKQWSVHSRWTKALMEEFFRQGDKEAELGLPFSPLCDRTSTLVAQSQ  
 IGFIDFIVEPTFSVLTDVAEKSVQPLADDDSKPKSQPR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**



**ACCN:** BC058531

**ORF Size:** 1374 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:** [BC058531](#), [AAH58531](#)

**RefSeq Size:** 4233 bp

**RefSeq ORF:** 1376 bp

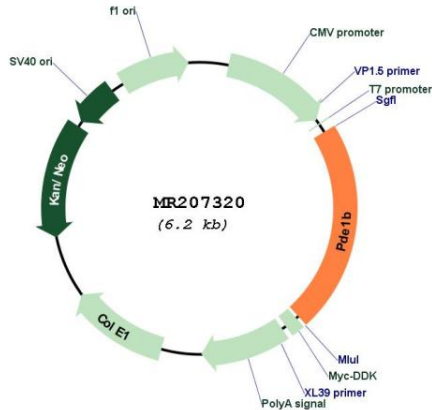
**Locus ID:** 18574

**Cytogenetics:** 15 F3

**MW:** 52.5 kDa

**Gene Summary:** Cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes. Has a preference for cGMP as a substrate (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207320