

## Product datasheet for **MG207320**

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

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Pde1b (BC058531) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                |
| Symbol:                   | Pde1b                                   |
| Synonyms:                 | Pde1b1, 63kDa                           |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-AC-GFP (PS100010)                 |
| E. coli Selection:        | Ampicillin (100 ug/mL)                  |



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**ORF Nucleotide Sequence:**

>MG207320 representing BC058531  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCTGTCCCCCGCAGTCCTCCAGAGATGCTGGAGTCGGATTGCCCGTCACCCCTGGAGCTGAAGT  
 CAGCCCCCAGCAAGAAAATGTGGATTAAGCTACGGTCTCTGCTGCGCTACATGGTGAAGCAGTTGGAGAA  
 TGGGGAGGTTAACATCGAGGAGCTGAAGAAAACTGGAATACACAGCTTCCCTGCTGGAAGCTGTCTAC  
 ATTGATGAGACAAGGCAAATCCTAGACACTGAAGATGAGCTTCGGGAACCTCGGTCAGATGCTGTGCCTT  
 CAGAGGTGCGGGACTGGTTGGCCTCCACCTTACCACAGCAGACCCGAGCCAAAGGTCGCAGGGCAGAAGA  
 GAAACCAAGTCCGAAGCATCGTGCATGCTGTGCAGGCTGGGATCTTCGTGGAGCGGATGTTCCGGAGA  
 ACGTATACCTCTGTGGGCCACATACTACTGCAGTCCACAAGTGTCTCAAGAACCTGGACCTCTGGT  
 GCTTTGATGTCTTTTCTGAACCGGGCAGCCGATGACCAGCTCTGAGGACCATTGTTTTGAGTTGCT  
 GACTCGGCATAGCCTCATCAGCCGCTTAAAGATCCCACAGTGTCTCTGATGAGTTTTCTGGAGGCCTTG  
 GAGACAGGCTATGGGAAATATAAGAATCCTTACCACAACAGATCCACGACGCGGACGTGACCCAGACTG  
 TCCATTGCTTCTTCTCCGCACAGGCATGGTGCCTGCCTGTGAGAGATTGAGGTCTTGGCCATCATCTT  
 TGCTGCAGCCATCCATGACTATGAGCACACAGGCACAACCAACAGCTTCCACATTCAGACCAAGTCAGAA  
 TGTGCCATCCTGTACAATGATCGATCGGTGCTGGAGAATCACCACATCAGCTCTGTCTTTCGAATGATGC  
 AGGATGATGAGATGAACATTTTTATCAATCTCACCAAGGATGAATTTGCAGAGCTGCGGGCCCTGGTTAT  
 CGAGATGGTGTGGCCACAGACATGCTCTGCCATTTCCAGCAAGTGAAGACTATGAAGACAGCACTGCAG  
 CAGTTGGAAGGATTGACAAGTCCAAGGCCCTATCTCTTCTGCTCATGCTGCTGACATCAGCCACCCAA  
 CTAAAGCAGTGGTCAAGTCCACAGCCGCTGACCAAGGCCCTAATGGAAGAGTTCTTCCGCCAGGGTGACAA  
 GGAGGCAGAGCTGGGCCCTGCCCTTCTCTCCACTGTGATCGCACTTCCACATTGGTGGCCAGTCCCAG  
 ATAGGTTTCATTGACTTCATTGTGGAGCCAACCTTCTCTGTGCTGACTGATGTGGCAGAAAAGAGTGCC  
 AGCCCTTGGCAGATGATGATTCCAAGCCTAAAAGTCAGCCAGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207320 representing BC058531  
 Red=Cloning site Green=Tags(s)

MELSPRSPPEMLESDCPSPLELKSAPSKMWIKLRSLRYMVKQLENGEVNIEELKKNLEYTASLLEAVY  
 IDETRQILDTEDELRELRSDAVPSEVRDNLASTFTQQTRAKGRRAEKPKFRSIVHAVQAGIFVERMFRR  
 TYTSVGPSTYAVHNCLKNLDLWCFDVFSLNRAADDHALRTIVFELLTRHSLISRFKIPTVFLMSFLEAL  
 ETGYGKYKNPYHNQIHAADVTQTVHCFLLRTGMVHCLSEIEVLAIFAAAIHDYEHTGTTNSFHITKSE  
 CAILYNDRSVLENHHISSVFRMMQDDEMNIIFINLTKDEFALRALVIEMVLATDMSCHFQQVKTMTALQ  
 QLERIDKSKALSLLLHAADISHPTKQWSVHSRWTKALMEEFFRQGDKEAELGLPFSPLCDRTSTLVAQSQ  
 IGFIDFIVEPTFSVLTDVAEKSVQPLADDSKPKSQPR

**TRTRPLE** - GFP Tag - V

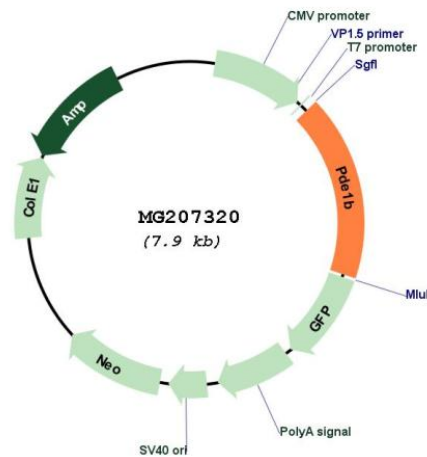
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC058531

ORF Size: 1376 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.

|                               |   |
|-------------------------------|---|
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <u><a href="#">BC058531</a></u> , <u><a href="#">AAH58531</a></u>   |
| <b>RefSeq Size:</b>           | 4233 bp   |
| <b>RefSeq ORF:</b>            | 1376 bp   |
| <b>Locus ID:</b>              | 18574   |
| <b>Cytogenetics:</b>          | 15 F3   |
| <b>Gene Summary:</b>          | 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]   |