

Product datasheet for **MR230339**

Pde1b (NM_001285890) Mouse Tagged ORF Clone

Product data:

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|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Pde1b (NM_001285890) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Pde1b |
| Synonyms: | Pde1b1 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>MR230339 representing NM_001285890
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAAACCCTGTTCTGTCCAGAGGAGCCACCTCCAGGGCCCCATCCTCAGGCTGCGCTACATGGTGA
 AGCAGTTGGAGAATGGGGAGTTAACATCGAGGAGCTGAAGAAAAACCTGGAATACACAGCTTCCCTGCT
 GGAAGCTGTCTACATTGATGAGACAAGGCAATCCTAGACACTGAAGATGAGCTTCGGAACCTCGGTCA
 GATGCTGTGCCTCAGAGGTGCGGGACTGGTTGGCCTCCACCTTACCCAGCAGACCCGAGCCAAAGGTC
 GCAGGGCAGAAGAAAACCAAGTCCGAAGCATCGTGCATGCTGTGCAGGCTGGGATCTTCGTGGAGCG
 GATGTTCCGGAGAACGTATACCTCTGTGGGCCACATACTCTACTGCAGTCCACAACCTGTCTCAAGAAC
 CTGGACCTCTGGTCTTTGATGTCTTTTCTTGAACCGGGCAGCCGATGACCACGCTCTGAGGACCATTG
 TTTTGTAGTTGCTGACTCGGCATAGCCTCATCAGCCGCTTAAAGATTCCACAGTGTCTGATGAGTTT
 TCTGGAGGCCCTTGAGACAGGCTATGGGAAATATAAGAATCCTTACCACAACCAGATCCACGCAGCCGAC
 GTGACCCAGACTGTCCATTGCTTCTTCTCCGCACAGGCATGGTGCACCTGTGTCAGAGATTGAGGTCT
 TGGCCATCATCTTTGCTGCAGCCATCCATGACTATGAGCACACAGGCACAAACCAAGCTTCCACATTCA
 GACCAAGTCAGAAATGTGCCATCCTGTACAATGATCGATCGGTGCTGGAGAATCACCAATCAGCTCTGTC
 TTTTCAATGATGCAGGATGATGAGATGAACATTTTATCAATCTCACCAAGGATGAATTTGCAGAGCTGC
 GGGCCCTGGTTATCGAGATGGTGTGGCCACAGACATGCTCTGCCATTTCCAGCAAGTGAAGACTATGAA
 GACAGCACTGCAGCAGTTGAAAAGGATTGACAAGTCCAAGGCCCTATCTCTTCTGCTTATGCTGCTGAC
 ATCAGCCACCCAACTAAGCAGTGGTCAGTCCACAGCCGCTGGACCAAGGCCCTAATGGAAGAGTTCTTCC
 GCCAGGGTGACAAGGAGGCAGAGCTGGGCTGCCCTTCTCTCCACTCTGTGATCGCACTCCACATTTGTT
 GGCCAGTCCCAGATAGGTTTCATTGACTTCAATGTTGGAGCCAACCTTCTCTGTGCTGACTGATGTGGCA
 GAAAAGAGTGTCCAGCCCTTGGCAGATGATGATTCCAAGCCTAAAAGTCAGCCCAGCTTCCAGTGGCGCC
 AGCCTTCTTTAGATGTGGACGTAGGAGACCCCAACCCTGATGTGGTCAGTTTCCGTGCCACCTGGACCAA
 GTACATTCAGAGAAACAAACAGAAGTGAAGGAACGGGCAGCAAGTGGCATCACCAACCAGATGTCCATT
 GATGAAGTGTCCCCTGTGAGGAAGAAGCCCCATCTCCCTGCAGAAGATGAGCACAAACAGAAATGGGA
 ATCTGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230339 representing NM_001285890
 Red=Cloning site Green=Tags(s)

MANPVPVQRSHLQGPILRLRYMVKQLENGEVNIEELKKNLEYTASLLEAVYIDETRQILDTEDELRELRS
 DAVPSEVRDWLASTFTQQTRAKGRRAEEKPKFRSIVHAVQAGIFVERMFRRYTSVGPYSTAVHNCLKN
 LDLWCFDVFSLNRAADHALRTIVFELLTRHLSIRFKIPTVFLMSFLEALETGYGKYKNPYHNQIHAAD
 VTQTVHCFLLRTGMVHCLSEIEVLAIIFAAAIIHDYEHTGTTNSFHIQTKSECAILYNDRSVLENHIISSV
 FRMMQDDEMNIFINLTKDEFAELRALVIEMVLATDMSCHFQQVKTMKTALQQLERIDKSKALLLLHAAD
 ISHPTKQWSVHSRWTKALMEEFFRQGDKEAELGLPFSPLCDRTSTLVAQSQIGFIDFIVEPTFSVLTQVA
 EKSVPPLADDDSKPKSQPSFQWRQPSLDVDVGDVDPNDVVSFRATWTKYIQENKQKWKERAASGITNQMSI
 DELSPCEEEAPSSPAEHDHNQNGNLD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

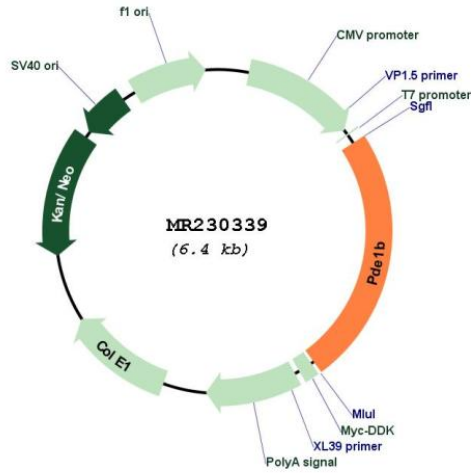
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



| | |
|-------------------------------|---|
| ACCN: | NM_001285890 |
| ORF Size: | 1548 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_001285890.1 , NP_001272819.1 |
| RefSeq Size: | 3245 bp |
| RefSeq ORF: | 1551 bp |
| Locus ID: | 18574 |
| Cytogenetics: | 15 F3 |
| MW: | 59.5 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] |