

Product datasheet for **MC228128**

Pde1b (NM_001285890) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC228128 representing NM_001285890
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAAACCCTGTTCTGTCCAGAGGAGCCACCTCCAGGGCCCCATCCTCAGGCTGCGCTACATGGTGA
 AGCAGTTGGAGAATGGGGAGTTAACATCGAGGAGCTGAAGAAAAACCTGGAATACACAGCTTCCCTGCT
 GGAAGCTGTCTACATTGATGAGACAAGGCAATCCTAGACACTGAAGATGAGCTTCGGAACCTCGGTCA
 GATGCTGTGCCTTCAGAGGTGCGGGACTGGTTGGCCTCCACCTTCACCCAGCAGACCCGAGCCAAAGGTC
 GCAGGGCAGAAGAAAACCAAGTTCGAAGCATCGTGCATGCTGTGCAGGCTGGGATCTTCGTGGAGCG
 GATGTTCCGGAGAACGTATACCTCTGTGGGCCACATACTCTACTGCAGTCCACAACCTGTCTAAGAAC
 CTGGACCTCTGGTCTTTGATGTCTTTTCTTGAACCGGGCAGCCGATGACCACGCTCTGAGGACCATTG
 TTTTGTAGTTGCTGACTCGGCATAGCCTCATCAGCCGCTTAAAGATTCCACAGTGTCTGATGAGTTT
 TCTGGAGGCCCTTGAGACAGGCTATGGGAAATATAAGAATCCTTACCACAACCAGATCCACGCAGCCGAC
 GTGACCCAGACTGTCATTGCTTCTTCCGCACAGGCATGGTGCACCTGTGTCAGAGATTGAGGTCT
 TGGCCATCATCTTTGCTGCAGCCATCCATGACTATGAGCACACAGGCACAACCAACAGCTTCCACATTCA
 GACCAAGTCAGAAATGTGCCATCCTGTACAATGATCGATCGGTGCTGGAGAATCACCACATCAGCTCTGTC
 TTTGCAATGATGCAGGATGATGAGATGAACATTTTATCAATCTCACCAGGATGAATTTGCAGAGCTGC
 GGGCCCTGGTTATCGAGATGGTGTGGCCACAGACATGCTCCTGCCATTTCCAGCAAGTGAAGACTATGAA
 GACAGCACTGCAGCAGTTGAAAAGGATTGACAAGTCCAAGGCCATCTCTTCTGCTTCATGCTGCTGAC
 ATCAGCCACCCAATAAGCAGTGGTCAGTCCACAGCCGCTGGACCAAGGCCCTAATGGAAGAGTTCTTCC
 GCCAGGGTGACAAGGAGGCAGAGCTGGCCCTTCTCCTCACTCTGTGATCGCACTTCCACATTTGGT
 GGCCAGTCCCAGATAGGTTTCATTGACTTCATTGTGGAGCCAACCTTCTCTGTGCTGACTGATGTGGCA
 GAAAAGAGTGTCCAGCCCTTGGCAGATGATGATTCCAAGCCTAAAAGTCAGCCAGCTTCCAGTGGCGCC
 AGCCTTCTTTAGATGTGGACGTAGGAGACCCCAACCCTGATGTGGTCAGTTTCCGTGCCACCTGGACCAA
 GTACATTCAGAGAACAACAGAAAGTGAAGGAACGGGCAGCAAGTGGCATCACCAACCAGATGTCCATT
 GATGAAGTGTCCCCTGTGAGGAAGAAGCCCCATCTCCCTGCAGAAGATGAGCACAACCAGAATGGGA
 ATCTGGAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001285890
- Insert Size:** 1551 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001285890.1](#), [NP_001272819.1](#)

RefSeq Size: 3245 bp

RefSeq ORF: 1551 bp

Locus ID: 18574

Cytogenetics: 15 F3

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]
Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region and contains an alternate 5' terminal exon compared to variant 1. The encoded protein (isoform 2) has a distinct N-terminus and is shorter than isoform 1.