

## Product datasheet for **RC238559**

### **PDE1B (NM\_001288769) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE1B (NM_001288769) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDE1B
Synonyms:	HEL-S-79p; PDE1B1; PDES1B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238559 representing NM\_001288769  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTGAAGCAGTTGGAGAATGGGGAGATAAACATTGAGGAGCTGAAGAAAAATCTGGAGTACACAGCTT  
 CTCTGCTGGAAGCCGTCTACATAGATGAGACACGGCAAATCTTGACACGGAGGACGAGCTGCAGGAGCT  
 GCGGTCAGATGCCGTGCCTTCGGAGGTGCGGGACTGGCTGGCCTCCACCTTCACCCAGCAGGCCCGGGCC  
 AAAGGCCGCCGAGCAGAGGAGAAGCCAAAGTCCGAAGCATTGTGCACGCTGTGCAGGCTGGGATCTTCG  
 TGGAACGGATGTTCCGGAGAACATACACCTCTGTGGGCCCACTTACTCTACTGCGGTTCTCAACTGTCT  
 CAAGAACCTGGATCTCTGGTGCTTTGATGTCTTTTCTTGAACCAGGCAGCAGATGACCATGCCCTGAGG  
 ACCATTGTTTTGAGTTGCTGACTCGGCATAACCTCATCAGCCGCTTCAAGATCCCCTGTGTTTTTGA  
 TGAGTTTCTGGATGCCTGGAGACAGGCTATGGGAAGTACAAGAATCCTTACCACAACCAGATCCACGC  
 AGCCGATGTTACCCAGACAGTCCATTGCTTCTTGTCCGCACAGGGATGGTGCCTGCTCGGAGATT  
 GAGCTCCTGGCCATCATCTTTGCTGCAGCTATCCATGATTATGAGCACACGGGCACTACCAACAGCTTCC  
 ACATCCAGACCAAGTCAGAATGTGCCATCGTGTACAATGATCGTTCAGTCTGGAGAATCACCACATCAG  
 CTCTGTTTTCCGATTGATGCAGGATGATGAGATGAACATTTTCATCAACCTCACCAAGGATGAGTTTGTA  
 GAACTCCGAGCCCTGGTCATTGAGATGGTGTGGCCACAGACATGCTCGCCATTTCCAGCAAGTGAAGA  
 CCATGAAGACAGCCTTGCAACAGCTGGAGAGGATTGACAAGCCCAAGGCCCTGTCTCTACTGCTCCATGC  
 TGCTGACATCAGCCCAACCAAGCAGTGGTTGGTCCACAGCCGTTGGACCAAGGCCCTCATGGAGGAA  
 TTCTTCCGTGAGGTGACAAGGAGGCAGAGTTGGCCCTGCCCTTTTCTCCACTCTGTGACCCGACTTCCA  
 CTCTAGTGGCACAGTCTCAGATAGGGTTCATCGACTTCATTGTGGAGCCACATTTCTGTGCTGACTGA  
 CGTGGCAGAGAAGAGTGTTCAGCCCTGGCGGATGAGGACTCCAAGTCTAAAAACCAGCCAGCTTTCAG  
 TGGCGCCAGCCCTCTCTGGATGTGGAAGTGGGAGACCCCAACCCTGATGTGGTCAGCTTTTCTCCACT  
 GGGTCAAGCGCATTACAGGAGAATAAGCAGAAAATGGAAGGAACGGGCGAGCAAGTGGCATCACCAACCAGAT  
 GTCCATTGACGAGCTGTCCCCTGTGAAGAAGAGGCCCCCCCATCCCCTGCCGAAGATGAACACAACCAG  
 AATGGGAATCTGGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238559 representing NM\_001288769  
 Red=Cloning site Green=Tags(s)

MVKQLENGEINIEELKKNLEYTASLLEAVYIDETRQILDTEDELQELRSDAVPSEVRDWLASTFTQQARA  
 KGRRAEEKPKFRSIVHAVQAGIFVERMFRRTYTSVGPTYSTAVLNCLKNLDLWCFDVFSLNQAADHALR  
 TIVFELLTRHNLISRFKIPTVFLMSFLDALETGYGKYKNPYHNQIHAADVTQTVHCFLLRTGMVHCLSEI  
 ELLAIIFAAAIHDIYEHTGTTNSFHITKSECAIVYNDRSVLENHHISSVFRLMQDDEMNIFINLTKDEFV  
 ELRALVIEMVLATDMSCHFQVKTMTKALQQLERIDKPKALSLLLHAADISHPTKQWLVHSRWTKALMEE  
 FFRQGDKEAELGLPFSPLCDRTSLVAQSQIGFIDFIVEPTFSVLTDAEKSQPLADESKSKNQPSFQ  
 WRQPSLDVEVGDPNPDVVSFRSTWVKRIQENKQWKERAASGITNQMSIDELSPCEEEAPPSPAEDHNDQ  
 NGNLD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

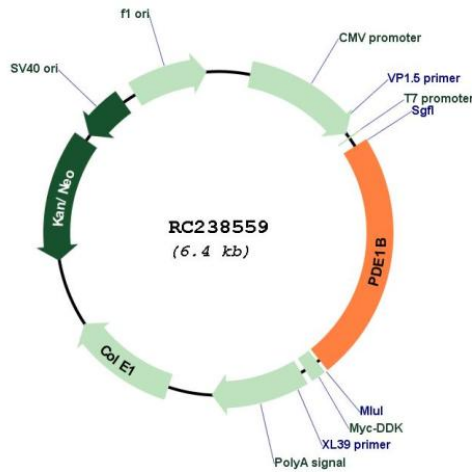
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



**ACCN:** NM\_001288769

**ORF Size:** 1485 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).

<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>	<a href="#">NM_001288769.1</a> , <a href="#">NP_001275698.1</a>
<b>RefSeq Size:</b>	3083 bp
<b>RefSeq ORF:</b>	1488 bp
<b>Locus ID:</b>	5153
<b>UniProt ID:</b>	<a href="#">Q01064</a>
<b>Cytogenetics:</b>	12q13.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Calcium signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism
<b>MW:</b>	57.1 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE1 subfamily. Members of the PDE1 family are calmodulin-dependent PDEs that are stimulated by a calcium-calmodulin complex. This PDE has dual-specificity for the second messengers, cAMP and cGMP, with a preference for cGMP as a substrate. cAMP and cGMP function as key regulators of many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2011]</p>