

Product datasheet for **SC336453**

PDE1B (NM_001288769) Human Untagged Clone

Product data:

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



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Fully Sequenced ORF: >SC336453 representing NM_001288769.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGTGAAGCAGTTGGAGAATGGGGAGATAAACATTGAGGAGCTGAAGAAAAATCTGGAGTACACAGCT
TCTCTGCTGGAAGCCGCTACATAGATGAGACACGGCAAATCTTGACACGGAGGACGAGCTGCAGGAG
CTGCGGTGAGATGCCGTGCCTTCGGAGGTGCGGGACTGGCTGGCCTCCACCTTCACCCAGCAGGCCCGG
GCCAAAGGCCCGCAGCAGAGGAGAAGCCAAGTTCGGAAGCATTGTGCACGCTGTGCAGCTGGGATC
TTCGTGGAACGGATGTTCCGGAGAACATACACCTCTGTGGGCCCACTTACTCTACTGCGTTTCTCAAC
TGTCTCAAGAACCTGGATCTCTGGTGCTTTGATGTCTTTTCTTGAACCAGGCAGCAGATGACCATGCC
CTGAGGACCATTGTTTTGAGTTGCTGACTCGGCATAACCTCATCAGCCGCTTCAAGATCCCACTGTG
TTTTTGATGAGTTTCTGGATGCCTTGGAGACAGGCTATGGGAAGTACAAGAATCCTTACCACAACCAG
ATCCACGCAGCCGATGTTACCCAGACAGTCCATTGCTTCTTGTCCGCACAGGGATGGTGCCTGCCTG
TCGGAGATTGAGCTCCTGGCCATCATCTTGTGTCAGCTATCCATGATTATGAGCACACGGGCACTACC
AACAGTTCACATCCAGACCAAGTCAAGTGTCCATCGTGTACAATGATCGTTTCAAGTGTGGAGAAT
CACCACATCAGCTCTGTTTTCCGATTGATGCAGGATGATGAGATGAACATTTTCAACAACCTCACCAG
GATGAGTTGTAGAACTCCGAGCCCTGGTCATTGAGATGGTGTGGCCACAGACATGTCCTGCCATTTT
CAGCAAGTGAAGACCATGAAGACAGCCTTGCAACAGCTGGAGAGGATTGACAAGCCCAAGGCCCTGTCT
CTACTGCTCCATGCTGCTGACATCAGCCACCCAACCAAGCAGTGGTTGGTCCACAGCCGTTGGACCAAG
GCCCTCATGGAGGAATTTCCGTCAGGGTGACAAGGAGCAGAGTTGGGCCTGCCCTTTTCTCCACTC
TGTGACCCACTTCCACTCTAGTGGCACAGTCTCAGATAGGGTTCATCGACTTCATTGTGGAGCCCA
TTCTCTGTGCTGACTGACGTGGCAGAGAAGAGTGTTCAGCCCTGGCGGATGAGGATCCAAGTCTAAA
AACCCAGCCAGCTTTTCAAGTGGCGCCAGCCCTCTCTGGATGTGGAAGTGGGAGACCCCAACCTGATGTG
GTCAGCTTTCTGTTCCACCTGGGTCAAGGCATTACAGGAGAATAAGCAGAAATGGAAGGAACGGGAGCA
AGTGGCATCACCACAGATGTCCATTGACGAGCTGTCCCTGTGAAGAAGAGGCCCCCATCCCT
GCCGAAGATGAACACAACCAGAATGGGAATCTGGATTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001288769

Insert Size: 1488 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).

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:	<u>NM_001288769.1</u>
RefSeq Size:	3083 bp
RefSeq ORF:	1488 bp
Locus ID:	5153
UniProt ID:	<u>Q01064</u>
Cytogenetics:	12q13.2
Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism
MW:	56.6 kDa
Gene Summary:	<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> <p>Transcript Variant: This variant (4) contains a distinct 5' UTR, lacks part of the 5' coding region, and uses an alternate start codon, compared to variant 1. The encoded isoform (4) has a shorter and distinct N-terminus, compared to isoform 1.</p>