

Product datasheet for SC335865

PDE1B (NM_001288768) Human Untagged Clone

Product data:

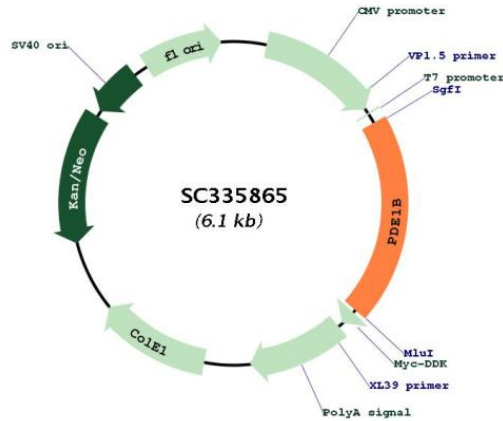
Product Type:	Expression Plasmids
Product Name:	PDE1B (NM_001288768) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE1B
Synonyms:	HEL-S-79p; PDE1B1; PDES1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335865 representing NM_001288768. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTCCGGAGAACATACACCTCTGTGGGCCCCACTTACTCTACTGCGGTTCTCAACTGTCTCAAGAAC
CTGGATCTCTGGTGCTTTGATGTCTTTTCTTGAACCAGGCAGCAGATGACCATGCCCTGAGGACCATT
GTTTTTGAGTTGCTGACTCGGCATAACCTCATCAGCCGCTTCAAGATTCCCCTGTGTTTTGATGAGT
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GATGTTACCCAGACAGTCCATTGCTTCTGCTCCGCACAGGGATGGTGCCTGCTGCGGAGATTGAG
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ATCCAGACCAAGTCAGAATGTGCCATCGTGTACAATGATCGTTTCAAGTGGGAGAAATCACCACATCAGC
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GAACTCCGAGCCCTGGTCATTGAGATGGTGTGGCCACAGACATGTCCTGCCATTTCCAGCAAGTGAAG
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GCTGCTGACATCAGCCACCAACCAAGCAGTGGTGGTCCACAGCCGTTGGACCAAGGCCCTCATGGAG
GAATCTTCCGTCAGGGTGACAAGGAGGCAGAGTTGGCCCTGCCCTTTTCTCCACTCTGTGACCCGACT
TCCACTTAGTGGCACAGTCTCAGATAGGGTTCATCGACTTCATTGTGGAGCCCACATTCTGTGCTG
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TCCACCTGGGTCAAGCGCATTACAGGAGAATAAGCAGAAATGGAAGGAACGGGCAGCAAGTGGCATCACC
AACCAGATGTCCATTGACGAGCTGTCCCTGTGAAGAAGAGGCCCCCATCCCTGCCAAGATGAA
CACAACCAGAATGGGAATCTGGATTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_001288768

Insert Size: 1200 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: [NM_001288768.1](#)

RefSeq Size: 3525 bp

RefSeq ORF: 1200 bp

Locus ID: 5153

UniProt ID: [Q01064](#)

Cytogenetics: 12q13.2

Protein Families: Druggable Genome

Protein Pathways: Calcium signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism

MW: 45.6 kDa

Gene Summary: 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]
Transcript Variant: This variant (3) differs in its 5' UTR and uses a downstream start codon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus, compared to isoform 1. Variants 3 and 5 both encode the same isoform (3).