

Product datasheet for **SC310288**

PDE1B (NM_000924) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE1B (NM_000924) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE1B
Synonyms:	HEL-S-79p; PDE1B1; PDES1B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_000924 edited
 CTTGGGCCGAGCCTAGAGACACCGCCTGGCTGGTCCACGCCAGCCGAGACCGTGGCTG
 AGCATGGAGCTGTCCCCCGCAGTCTCCGGAGATGCTGGAGGAGTGGATTGCCCGTCA
 CCCCTGGAGCTGAAGTCAGCCCCAGCAAGAAGATGTGGATTAAGCTTCGGTCTCTGCTG
 CGCTACATGGTGAAGCAGTTGGAGAATGGGGAGATAAACATTGAGGAGCTGAAGAAAAAT
 CTGGAGTACACAGCTTCTCTGCTGGAAGCCGTCTACATAGATGAGACACGGCAAATCTTG
 GACACGGAGGACGAGCTGCAGGAGCTGCGGTGAGATGCCGTGCCCTTCGGAGGTGCGGGAC
 TGGCTGGCCTCCACCTTACCCAGCAGGCCGGGCCAAAGGCCGCGAGCAGAGGAGAAG
 CCCAAGTTCGAAGCATTGTGCACGCTGTGCAGGCTGGGATCTTCGTGGAACGGATGTTT
 CGGAGAACATACACCTCTGTGGGCCCACTTACTCTACTGCGGTTCTCAACTGTCTCAAG
 AACCTGGATCTCTGGTCTTTGATGTCTTTTCTTGAACCAGGCAGCAGATGACCATGCC
 CTGAGGACCATTGTTTTGAGTTGCTGACTCGGCATAACCTCATCAGCCGCTTCAAGATT
 CCCACTGTGTTTTGATGAGTTTCTGGATGCCTTGGAGACAGGCTATGGGAAGTACAAG
 AATCCTTACCACAACCAGATCCACGCAGCCGATGTTACCCAGACAGTCCATTGCTTCTTG
 CTCGACAGGGATGGTGCAGTGCCTGTGCGAGATTGAGCTCCTGGCCATCATCTTTGCT
 GCAGCTATCCATGATTATGAGCACACGGCACTACCAACAGCTTCCACATCCAGACCAAG
 TGAAGTGTGCCATCGTGTACAATGATCGTTCAGTGTGGAGAATCACCACATCAGCTCT
 GTTTTCCGATTGATGCAGGATGATGAGATGAACATTTTCATCAACCTCACCAAGGATGAG
 TTTGTAGAAGTCCGAGCCCTGGTCATTGAGATGGTGTGGCCACAGACATGTCCTGCCAT
 TTCCAGCAAGTGAAGACCATGAAGACAGCCTTGAACAGCTGGAGAGGATTGACAAGCCC
 AAGGCCCTGTCTACTGCTCCATGCTGCTGACATCAGCCACCAACCAAGCAGTGGTTG
 GTCCACAGCCGTTGGACCAAGCCCTCATGGAGGAATTTCCGTCAGGGTGACAAGGAG
 GCAGATTGGGCCTGCCTTTTTCCACTCTGTGACCCACTTCCACTCTAGTGGCACAG
 TCTCAGATAGGGTTCATCGACTTATTGTGGAGCCACATTCTCTGTGCTGACTGACGTG
 GCAGAGAAGAGTGTTCAGCCCTGGCGGATGAGGACTCCAAGTCTAAAAACCAGCCAGC
 TTTCAAGTGGCCAGCCCTCTCTGGATGTGGAAGTGGGAGACCCCAACCCTGATGTGGTC
 AGCTTTCGTTCCACCTGGGTCAAGCGCATTGAGGAGAACAAGCAGAAATGGAAGGAACGG
 GCAGCAAGTGGCATCACCAACCAGATGTCCATTGACGAGCTGTCCCCTGTGAAGAAGAG
 GCCCCCCATCCCCTGCCGAAGATGAACACAACCAGAATGGGAATCTGGATTAGCCCTGG
 GGCTGGCCAGGTCTTATTGAGTCCAAGTGTGTTGATGTATCAGCACCATCCATCAGG
 ACTGGCTCCCCATCTGCTCCAAGGGAGCGTGGTCGTGGAAGAAACAACCCACCT

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000924 unedited
 CGTCAAATTTGTATACGACTCATATAGGGCGGCCGGAATCAGATCTGGTACCGAGCTC
 GGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTCTGGGCCGAGCCTAGA
 GACACCGCCTGGCTGGTCCACGCCAGCCGAGACCGTGGCTGAGCATGGAGCTGTCCCC
 CCGCAGTCTCCGGAGATGCTGGAGGAGTGGATTGCCCGTACCCTGGAGCTGAAGTCA
 AGCCCCAGCAAGAAGATGTGGATTAAGCTTCGGTCTCTGCTGCGCTACATGGTGAAGCA
 GTTGGAGAATGGGGAGATAAACATTGAGGAGCTGAAGAAAAATCTGGAGTACACAGCTTC
 TCTGCTGGAAGCCGTCTACATAGATGAGACACGGCAAATCTTGGACACGGAGGACGAGCT
 GCAGGAGCTGCGGTGAGATGCCGTGCCTTCGGAGGTGCGGGACTGGCTGGCCTCCACCTT
 CACCCAGCAGGCCGGGCCAAAGGCCGCCGAGCAGAGGAGAAGCCCAAGTTCGAAGCAT
 TGTGCACGCTGTGCAGGCTGGGATCTTCGTGGAACGGATGTTCCGNGAGACATACACCTC
 TGTGGGCCCACTTACTCTACTGNCGTTCTCAACTGTCTCAAGAACCTGGATCTCTGGTG
 CTTTGATGTCTTTTCTTGAACCANGCAGCAGATGACCATGCCCTNGAGACCCATGTTTT
 TGAGTTGCTGACTCGGCATAACCTCATCAGCCGCTTCAAGATTCCACTGGGTTTTTGATG
 AAGTTCCTGAATGCCTGGNAGACCGGGCTATGGGAAGTACAAGGAATCCTTACACAACC
 AGATTCACGCAGCCGATGTTACCCAGAAAGTCCACTGGTTTCTTGTCCCCACAGGGAA
 TGTGC

3' Read Nucleotide Sequence:	>Forward primer walk for NM_000924 unedited TCCGTTACAAAAGGCACGGCCTTTCTACTGCCTCCTTGTACCCTGACGNAAGATTCCCTC CATGAGGCCTTGGTCCAACGGCTGTGGACCAACCACTGCTTGGTTGGGTGGCTGATGTCA GCAGCATGGAGCAGTAGAGACAGGGCCTTGGGCTTGTCAATCCTCTCCAGCTGTTGCAAG GCTGTCTTCATGGTCTTCACTTGGTAAATGGCAGGACATGTCTGTGGCCAACACCATC TCAATGACCAGGGCTCGGAGTTCTACAACTCATCCTTGGTGAGGTTGATGAAAATGTTT ATCTCATCCTGCATCAATCGGAAAACAGAGCTGATGTGGTGATTCTCCAGCACTGAA CGATCATTGTACAGGATGGCACATTCTGACTTGGTCTGGATGTGAAGCTGTTGGTAGTG CCCGTGTGCTCATAATCATGGATAGCTGCAGCAAAGATGATGGCCAGGAGCTCAATCTCC GACAGGCAGTGCACCATCCCTGTGCGGAGCAAGAAGCAATGGACTGTCTGGGTAACATCG GCTGCGTGGATCTGGTTGTGGAAGGATTCTTGTACTTCCCATAGCCTGTCTCCAAGGCA TCCAGGAACTCATCAAAAACACAGTGGNGAATCTTGAAGCGGCTGATGAGGTTATGCCG AGTCAGCAACTCANAACAATGGTCCTCANGGCATGGTCATCTGCTGCCTGGTTCAAGGA AAAGACATCAAAGCACCAGAGATCCAANGTTCTTGAGACAGTTGAGAACCGCAGTAGAGT AAGTGGGGCCCCACAGAGGTGTATGTTCTCCGGGACATCCGTTN
Restriction Sites:	Please inquire
ACCN:	NM_000924
Insert Size:	1800 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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<u>NM_000924.2</u> , <u>NP_000915.1</u>
RefSeq Size:	3236 bp
RefSeq ORF:	1611 bp
Locus ID:	5153
UniProt ID:	<u>Q01064</u>
Cytogenetics:	12q13.2
Domains:	PDEase, HDc

Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism
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 (1) encodes the longest isoform (1).</p>