

Product datasheet for **RG237971**

PDE1B (NM_001288768) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE1B (NM_001288768) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDE1B
Synonyms:	HEL-S-79p; PDE1B1; PDES1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237971 representing NM_001288768. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGTTCCGGAGAACATACACCTCTGTGGGCCCCACTTACTCTACTGCGGTTCTCAACTGTCTCAAGAAC
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AACCAGATGTCCATTGACGAGCTGTCCCCTGTGAAGAAGAGGCCCCCATCCCCTGCCAAGATGAA
CACAACCAGAATGGGAATCTGGAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237971
 Blue=ORF Red=Cloning site Green=Tag(s)

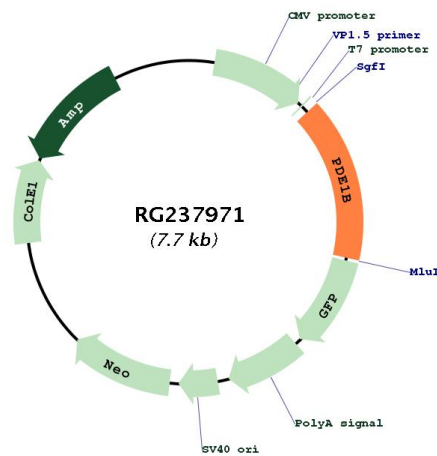
MFRRTYTSVGPYTYSTAVLNCLKNLWCFDVFSLNQAADDHALRTIVFELLTRHNLISRFKIPTVFLMS
 FLDALETGYGKYKNPYHNQIHAADVTQTVHCFLLRGMVHCLSEIELLAIIFAAAIHDYEHTGTTNSFH
 IQTKSECAIVYNDRSVLNHHIISVFRMLQDDEMNIIFINLTKDEFVELRALVIEMVLATDMSCHFQQVK
 TMKTALQQLERIDKPKALSLLLHAADISHPTKQWLVHSRWTKALMEEFFRQGDKEAELGLPFSPLCDRT
 STLVAQSQIGFIDFIVEPTFSVLTDVAEKSVQPLADEDSKSKNQPSFQWRQPSLDVEVGDVNPDPVVSFR
 STWVKRIQENKQWKERAASGITNQMSIDELSPCEEEAPPSPAEDHNQNGNLD
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
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 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001288768
ORF Size:	1197 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).
RefSeq:	NM_001288768.1 , NP_001275697.1
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:	46 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]