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Product datasheet for RC237971

PDE1B (NM_001288768) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE1B (NM_001288768) 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
ORF Nucleotide Sequence:	>RC237971 representing NM_001288768 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTTCCGGAGAACATACACCTCTGTGGGCCCCACTTACTCTACTGCGGTTCTCAACTGTCTCAAGAACC TGGATCTCTGGTGCTTTGATGTCTTTTCCTTGAACCAGGCAGCAGATGACCATGCCCTGAGGACCATTGT TTTTGAGTTGCTGACTCGGCATAACCTCATCAGCCGCTTCAAGATTCCCACTGTGTTTTTGATGAGTTTC CTGGATGCCTTGGAGACAGGCTATGGGAAGTACAAGAATCCTTACCACAACCAGATCCACGCAGCCGATG TTACCCAGACAGTCCATTGCTTCTTGCTCCGCACAGGGATGGTGCACTGCCTGTCGGAGATTGAGCTCCT GGCCATCATCTTTGCTGCAGCTATCCATGATTATGAGCACACGGGCACTACCAACAGCTTCCACATCCAG ACCAAGTCAGAATGTGCCATCGTGTACAATGATCGTTCAGTGCTGGAGAATCACCACATCAGCTCTGTTT TCCGATTGATGCAGGATGATGAGATGAACATTTTCATCAACCTCACCAAGGATGAGTTTGTAGAACTCCG AGCCCTGGTCATTGAGATGGTGTTGGCCACAGACATGTCCTGCCATTTCCAGCAAGTGAAGACCATGAAG ACAGCCTTGCAACAGCTGGAGAGGATTGACAAGCCCAAGGCCCTGTCTCTACTGCTCCATGCTGCTGACA TCAGCCACCCAACCAAGCAGTGGTTGGTCCACAGCCGTTGGACCAAGGCCCTCATGGAGGAATTCTTCCG TCAGGGTGACAAGGAGGCAGAGTTGGGCCTGCCCTTTTCTCCACTCTGTGACCGCACTTCCACTCTAGTG GCACAGTCTCAGATAGGGTTCATCGACTTCATTGTGGAGCCCACATTCTCTGTGCTGACTGACGTGGCAG AGAAGAGTGTTCAGCCCCTGGCGGATGAGGACTCCAAGTCTAAAAACCAGCCCAGCTTTCAGTGGCGCCA GCCCTCTCTGGATGTGGAAGTGGGAGACCCCAACCCTGATGTGGTCAGCTTTCGTTCCACCTGGGTCAAG CGCATTCAGGAGAATAAGCAGAAATGGAAGGAACGGGCAGCAAGTGGCATCACCAACCAGATGTCCATTG ACGAGCTGTCCCCCTGTGAAGAAGAGGCCCCCCCATCCCCTGCCGAAGATGAACACAACCAGAATGGGAA TCTGGAT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

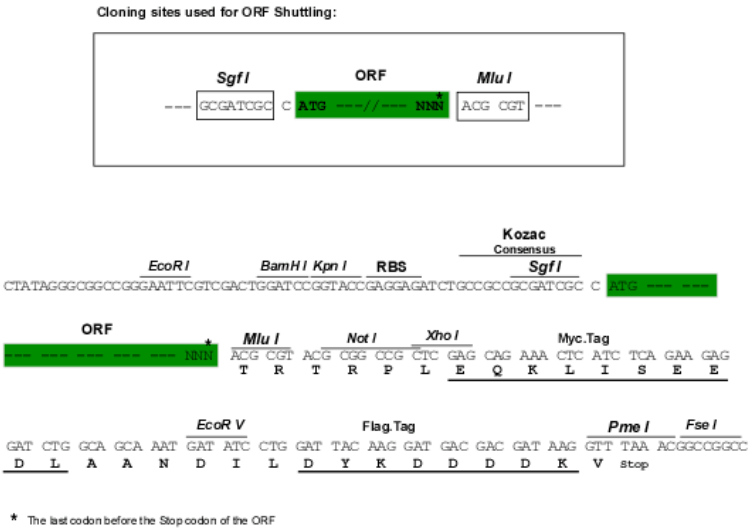
>RC237971 representing NM_001288768
Red=Cloning site Green=Tags(s)

MFRRTYTSVGPTYSTAVLNCLKNLDLWCFDVFSLNQAADDHALRTIVFELLTRHNLISRFKIPTVFLMSF
LDALETGYGKYKNPYHNQIHAADVTQTVHCFLLRTGMVHCLSEIELLAIIFAAAIHDYEHTGTTNSFHIQ
TKSECAIVYNDRSVLENHHISSVFRLMQDDEMNIFINLTKDEFVELRALVIEMVLATDMSCHFQQVKTMK
TALQQLERIDKPKALSLLLHAADISHPTKQWLVHSRWTKALMEEFFRQGDKEAELGLPFSPLCDRTSTLV
AQSQIGFIDFIVEPTFSVLTDVAEKSVQPLADEDSKSKNQPSFQWRQPSLDVEVGDPNPDVVSFRSTWVK
RIQENKQKWKERAASGITNQMSIDELSPCEEEAPPSPAEDEHNQNGNLD

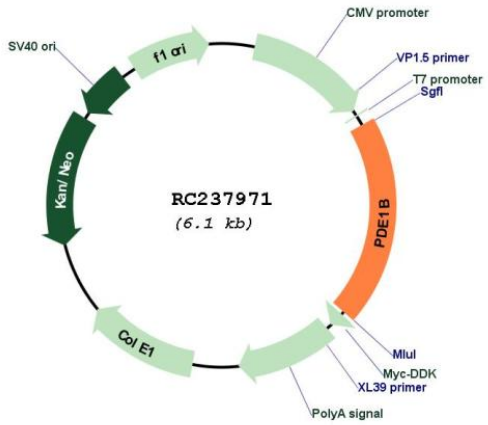
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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).
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, 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]