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Product datasheet for SC125326

PDE3B (NM_000922) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE3B (NM_000922) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE3B
Synonyms:	cGIPDE1; HcGIP1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC125326 sequence for NM_000922 edited (data generated by NextGen Sequencing)

ATGAGGAGGGACGAGCGAGACGCCAAAGCCATGCGGTCCCTGCAGCCGCCGGATGGGGCC
GGCTCGCCCCCCGAGAGTCTGAGGAACGGCTACGTGAAGAGCTGCGTGAGCCCCTTGCGG
CAGGACCCTCCGCGCGGCTTCTTCTTCCACCTCTGCCGCTTCTGCAACGTGGAGCTGCGG
CCGCCGCCGGCCTCTCCCCAGCAGCCGCGGCGCTGCTCCCCCTTCTGCCGGGCGCGCCTC
TCGCTGGGCGCCCTGGCTGCCTTTGTCCTCGCCCTGCTGCTGGGCGCGGAACCCGAGAGC
TGGGCTGCCGGGGCCGCCTGGCTGCGGACGCTGCTGAGCGTGTGTTCGCACAGCTTGAGC
CCCCTCTTCAGCATCGCCTGTGCCTTCTTCTTCCTCACCTGCTTCCTCACCCGGACCAAG
CGGGGACCCGGCCCGGGCCGGAGCTGCGGCTCCTGGTGGCTGCTGGCGCTGCCCGCCTGC
TGTTACCTGGGGGACTTCTTGGTGTGGCAGTGGTGGTCTTGGCCTTGGGGGGATGGCGAC
GCAGGGTCCGCGGCCCCGCACACGCCCCCGGAGGCGGCAGCGGGCAGGTTGCTGCTGGTG
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CTCACACCATTTCCTGGATTTTACCCCTGTTCTGAAATAGAGGACCCAGCTGAGAAAGGG
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CATGTAGGTCTCAGAAGAGCTGGTGTTTTGTCCAGTCTGAGTCCTGTGAATTCTTCCAAC
CATGGACCAGTGTCTACTGGCTCTCTAACTAATCGATCACCCATAGAATTTCCTGATACT
GCTGATTTTCTTAATAAGCCAAGCGTTATCTTGCAGAGATCTCTGGGCAATGCACCTAAT
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GAAAACAATCTAAATCCAAAACCACCAAGAAGGAAAAGCAGACGGCGAATATTTTGTCAG
CTAATGCACCACCTCACTGAAAACCACAAGATATGGAAGGAAATCGTAGAGGAAGAAGAA
AAATGTAAAGCTGATGGGAATAAACTGCAGGTGGAGAATTCCTCCTTACCTCAAGCAGAT
GAGATTCAGGTAATTGAAGAGGCAGATGAAGAGGAATAG

Clone variation with respect to NM_000922.3
1389 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000922 unedited
TATACGACTCACTATAGGGCGGCCGCGAATTCGCACGAGGGTTGCAGCCAGCGGAGGTGG
GAGGCGACACTGAGTCTCCAGTCCCGAGAGGTGCCCGAGGGAAAAGGAGGCGGCAGCTAA
ACTGGTCCTGGAGAGAAGCCCCTTCCGCCCCTCTCCTCAGCCAGCATGTCCCGGACTCCG
CCGCTCCTCAGTCCGCGCGGTGGGGACCCCGGGCCGTGGCGGCCGGCGCAGCCCTGACGG
GTTGCGAACCAGGGGGCGCCCCGAACGCGGGGGTTGGGGTCTGGGAGCGCGAGCGGCCGC
TACGGTACGAGCGGGGTGTGCTGAGTCCCGTGGCCACCCCCGGCCCCAGCCATGAGGAGG
GACGAGCGAGACGCCAAAGCCATGCGGTCCCTGCAGCCGCCGGATGGGGCCGGCTCGCCC
CCCGAGAGTCTGAGGAACGGCTACGTGAAGAGCTGCGTGAGCCCCTTGCGGCAGGACCCT
CCGCGCGGCTTCTTCTTCCACCTCTGCCGCTTCTGCAACGTGGAGCTGCGGCCGCCGCCG
GCCTCTCCCCAGCAGCCGCGGCGCTGCTCCCCCTTCTGCCGGGCGCGCCTCTCGCTGGGC
GCCCTGGCTGCCTTTGTCCTCGCCCTGCTGCTGGGCGCGGAACCCGAGAGCTGGGCTGCC
GGGGCCGCCTGGCTGCGGACGCTGCTGAGCGTGTGTTCGCACAGCTTGAGCCCCCTCTTC
AGCATCGCCTGTGCCTTCTTCTTCCTCACCTGCTTCCTCACCCGGACCAAGCNNGGGACC
CGGGCCCGGGCCAGGAGCTGCANGCTCCTGGTAGGCTGCTGGGCGCTGCCCAGNCTGCTG
TTACCTGGAGGAACTNCCTTGGTGTGGNCAGTGGTGGGNTCTGGCCCTTGGNGGGGATGG
CGAACGCAGGGTCCCGCGGGCCCGCACACGCCCCCGGAGGCGGGAGCGGG

Restriction Sites:	NotI-NotI
ACCN:	NM_000922
Insert Size:	4700 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_000922.2, NP_000913.2
RefSeq Size:	4784 bp
RefSeq ORF:	3339 bp
Locus ID:	5140
UniProt ID:	Q13370
Cytogenetics:	11p15.2
Domains:	PDEase, HDc
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Insulin signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism
Gene Summary:	Cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes. May play a role in fat metabolism. Regulates cAMP binding of RAPGEF3. Through simultaneous binding to RAPGEF3 and PIK3R6 assembles a signaling complex in which the PI3K gamma complex is activated by RAPGEF3 and which is involved in angiogenesis.[UniProtKB/Swiss-Prot Function]