

Product datasheet for RC222006

PDE3A (NM_000921) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE3A (NM_000921) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDE3A
Synonyms:	CGI-PDE; CGI-PDE-A; CGI-PDE A; HTNB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222006 representing NM_000921 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGTGCCCGGCGACGCTGCACGAGTCAGGGACAAGCCCGTCCACAGTGGGGTGGTCAAGCCCCCA
CGGCGGGCGGGACTGCCACCATCGTGCGGACCCCGCATCGCCGCGGGACTCGGGCTGCCGTGGTGCTG
GGGAGACCTGGTGTGCAGCCGCTCCGGAGCTCTCGAAACTTTCCTCCGCGCTGTGCGCGGGCTCCCTG
TCCTTTCTGCTGGCGCTGCTGGTGGGCTGGTCCGCGGGGAGGTCGGCTGTGACCTGGAGCAGTGAAGG
AGGCGGCGGGCGGAGGAGGAGGAAGCAGCCCCGGGAGCAGAAGGGGGGTCTTCCCGGGCCTCGGGG
AGGTGCTCCCGGGGCGGTGCGCGGCTCAGCCCTGGCTGAGCCCTCGGCGCTGCTCTTCACTCCTG
TGTGCCTTCTTCTGGATGGGCTTGTACCTCCTGCGCGCCGGGGTGCCTGCTGCTGCTGCTGCGCTGC
TGGCCGCTGCTGCGGGGGGAAGCGCTCGTCCAGATTGGGCTGGGCGTGGGGAGGATCACTTACTCTC
ACTCCCGCCGCGGGGGTGGTGTGCTCAGCTGCTTGGCCGCGCGACATGGCTGGTGTGAGGCTGAGGCTG
GGCGTCTCATGATCGCCTTGACTAGCGCGGTGAGGACCGTGTCCCTCATTTCCTTAGAGAGGTTCAAGG
TCGCTGGAGACCTTACCTGGCGTACCTGGCCGGCGTGTGGGATCCTCTTGGCCAGGTACGTGGAACA
AATCTTGCCGAGTCCGCGGAGGCGGCTCCAAGGAGCATTGGGGTCCAGCTGATTGCTGGGACCAAG
GAAGATATCCCGGTGTTAAGAGGAGGAGCGGTCCAGTCCGTCGTGTCGCGGAGATGTCGGCTGCA
GCAGCAAGTCCCATCGGAGGACCTCCCTGCCCTGTATACCGAGGGAACAGCTCATGGGGCATTGAGAATG
GGACCACAAACGAGGGCCAAGAGGATCACAGTCTTCAGGAACAGTATTACTGTGGACATCGCCGTCATG
GGCGAGGCCACGGCCTCATTACCGACCTCCTGGCAGACCCTTCTTCCACAAACGTGTGCACATCCT
TGAGAGCCGTGAGCAACTTGCTCAGCACACAGCTCACCTTCCAGGCCATTACAAGCCAGAGTGAATCC
CGTTACTTCGCTCAGTAAAACATACTGTTCTGACTCTGAAGAGAGCTCTGAAAAAGACAAGCTTGCT
ATTCAAAGCGCCTGAGAAGGAGTTTGCCTCCTGGCTTGTGAGACGAGTTTCTTCCACTTGACCACCA
CCACCTCGGCCACAGGTCTACCCACCTTGAGCCTGCACCAGTACGGAGAGACCCGACGACCAGCATCAA
ACTGCAGGAAGCACCTTCATCCAGTCTGATTCTTGAATAATCCAGTGTGATGACCCTACCAAAGC

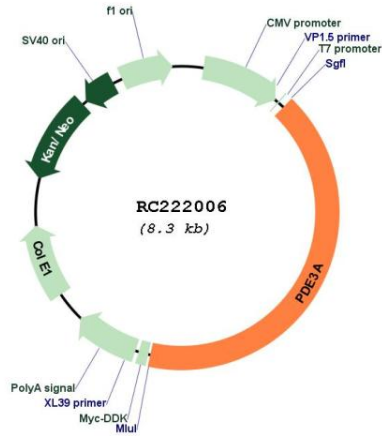


AGATCCTTTACTTCATCCTATGCTATTTCTGCAGCTAACCATGTAAGGCTAAAAAGCAAAGTCGACCAG
GTGCCCTCGTAAAAATTTACCTCTTTCATCGCCCTGCTCCTCACCTCTCCAAGGGACTCCTGCCAGCAG
CCTGGTCAGCAAAATTTCTGCAGTGCAGTTCCAGAATCTGCTGACACAACCTGCCAAACAAAGCCTAGGT
TCTCACAGGGCCTTAACCTACACTCAGAGTGCCCCAGACCTATCCCCTCAAATCCTGACTCCACCTGTTA
TATGTAGCAGCTGTGGCAGACCATATCCCAAGGGAATCCTGCTGATGAGCCCCTGGAGAGAAGTGGGGT
AGCCACTCGGACACCAAGTAGAACAGATGACACTGCTCAAGTTACCTCTGATTATGAAACCAATAACAAC
AGTGACAGCAGTGACATTGTACAGAATGAAGATGAAACAGAGTGCCTGAGAGAGCCTCTGAGGAAAGCAT
CGGCTTGCAGCACCTATGCTCCTGAGACCATGATGTTTCTGGACAAACCAATTCTTGCTCCCGAACCTCT
TGTCATGGATAACCTGGACTCAATTATGGAGCAGCTAAATACTTGGAAATTTTCCAATTTTGTATTTAGTG
GAAAAATAGGAAGAAAAATGTGGCCGATTCTTAGTCAGGTATCTTACAGACTTTTTGAAGACATGGGCC
TGTTTGAAGCTTTTAAAAATCCAATTAGGGAATTTATGAATTATTTTCATGCTTTGGAGATTGGATATAG
GGATATTCCTTATCATAACAGAATCCATGCCACTGATGTTTTACATGCTGTTTGGTATCTTACTACACAG
CCTATTCAGGCCTCTCAACTGTGATTAATGATCATGGTTCAACCAGTGATTGAGATTCTGACAGTGGAT
TTACACATGGACATATGGGATATGTATTCTCAAAAACGTATAATGTGACAGATGATAAATACGGATGCT
GTCTGGGAATATCCCTGCCTTGGAGTTGATGGCGCTGTATGTGGCTGCAGCCATGCACGATTATGATCAT
CCAGGAAGGACTAATGCTTTCCTGGTTGCAACTAGTGCTCCTCAGGCGGTGCTATATAACGATCGTTCAG
TTTTGGAGAATCATCACGCAGCTGCTGCATGGAATCTTTTCATGTCCCGCCAGAGTATAACTTCTTAAT
TAACCTTGACCATGTGGAATTTAAGCATTTCCGTTTCTTGTGATTGAAGCAATTTTGGCCACTGACCTG
AAGAAACACTTTGACTTCGTAGCCAAATTTAATGGCAAGGTAATGATGATGTTGGAATAGATTGGACCA
ATGAAAATGATCGTCTACTGGTTTGTCAAATGTGTATAAAGTTGGCTGATATCAATGGTCCAGCTAAATG
TAAAGAACTCCATCTTCAGTGGACAGATGGTATTGTCAATGAATTTTATGAACAGGGTATGAAGAGGCC
AGCCTTGGATTACCCATAAGCCCCTTTCATGGATCGTTCTGCTCCTCAGCTGGCCAACCTTCAGGAATCCT
TCATCTCACATTGTGGGGCCTCTGTGCAACTCCTATGATTGAGCAGGACTAATGCCTGGAAAAATGGGT
GGAAGACAGCGATGAGTCAGGAGATACTGATGACCCAGAAGAAGAGGAGGAAGAAGCACCAGCACCAAAAT
GAAGAGGAAACCTGTGAAAAAATGAATCTCAAAAAAAGAACTTTCAAAGGAGAAAAATCTACTGCC
AAATAACTCAGCACCTCTTACAGAACCACAAGATGTGGAAGAAAGTCATTGAAGAGGAGCAACGGTTGGC
AGGCATAGAAAAATCAATCCCTGGACCAGACCCCTCAGTCGCACTCTTCAAGACAGATCCAGGCTATCAAG
GAAGAAGAAGAAGAGAAAGGAAACCAAGAGGCGAGGAGATACCAACCCAAAAGCCAGACCAG

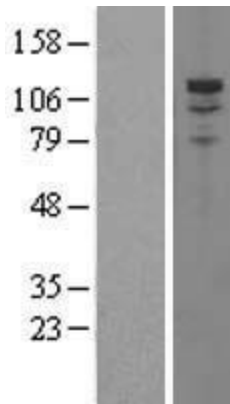
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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:	<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:	NM_000921.5
RefSeq Size:	4124 bp
RefSeq ORF:	3426 bp
Locus ID:	5139
UniProt ID:	Q14432
Cytogenetics:	12p12.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Insulin signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism
MW:	124.8 kDa
Gene Summary:	This gene encodes a member of the cGMP-inhibited cyclic nucleotide phosphodiesterase (cGI-PDE) family. cGI-PDE enzymes hydrolyze both cAMP and cGMP, and play critical roles in many cellular processes by regulating the amplitude and duration of intracellular cyclic nucleotide signals. The encoded protein mediates platelet aggregation and also plays important roles in cardiovascular function by regulating vascular smooth muscle contraction and relaxation. Inhibitors of the encoded protein may be effective in treating congestive heart failure. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RC222006



Western blot validation of overexpression lysate (Cat# [LY424434]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222006 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).