

Product datasheet for **RC230981**

PDE4DIP (NM_001195260) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PDE4DIP (NM_001195260) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PDE4DIP
Synonyms: CMYA2; MMGL
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC230981 representing NM_001195260
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

**ATGCAACAGAAGTATGAGGCCAGCCGGGAGGACATCTACAAGCGGAACATTGAGCTGAAGTTGAAGTGG
AGAGCTTGAACGAGAAGTCCAGGACAAGAAACAGCATCTGGATAAAACATGGGCTGATGTGAGAATCT
CAACAGTCAGAAATGAAGCTGAGCTCCGACGCCAGTTTGGAGAGCGACAGCAGGAGACGGAGCATGTTTAT
GAGCTCTTGGAGAATAAGATCCAGCTTCTGCAGGAGGAATCCAGGCTAGCAAAGAATGAAGCTGCGCGGA
TGGCAGCTCTGGTGAAGCAGAGAAGGAGTGTAACCTGGAGCTCTCAGAGAACTGAAGGGAGTACCAA
AACTGGGAAGATGTACCAGGAGACCAGGTCAAGCCCACCAATACACTGAGGCCCTGGCCAGAGGGAC
AAG**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RC230981 representing NM_001195260
Red=Cloning site Green=Tags(s)

**MQQKYEASREDIYKRNIELKVEVESLKRELQDKKQHLDKTWADVENLNSQNEALRRQFEERQQETEHVY
ELLENKIQLLQEE SRLAKNEARMAALVEAEKECNLELSEKLGVTKNWEDVPGDQVKPDQYTEALAQRD
K**

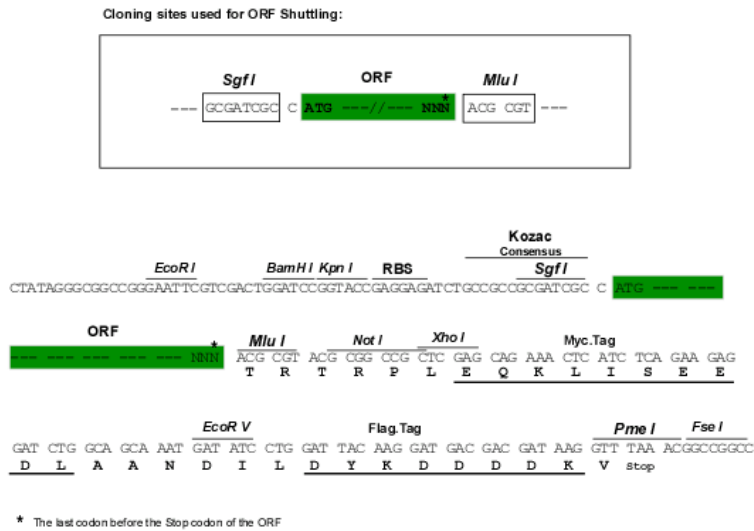
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

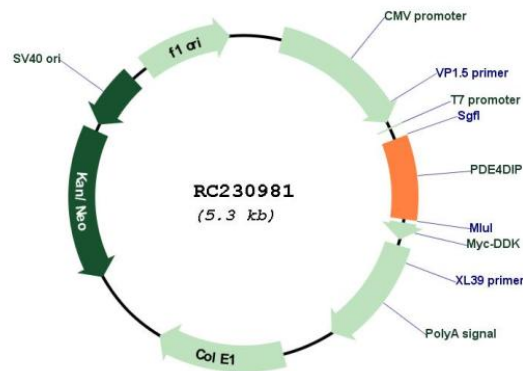


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001195260

ORF Size: 423 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:	<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_001195260.1, NP_001182189.1</u>
RefSeq ORF:	426 bp
Locus ID:	9659
UniProt ID:	<u>Q5VU43</u>
Cytogenetics:	1q21.2
MW:	17.2 kDa
Gene Summary:	The protein encoded by this gene serves to anchor phosphodiesterase 4D to the Golgi/centrosome region of the cell. Defects in this gene may be a cause of myeloproliferative disorder (MBD) associated with eosinophilia. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2010]