

Product datasheet for SC312905

PDE4DIP (NM_022359) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE4DIP (NM_022359) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE4DIP
Synonyms:	CMYA2; MMGL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC312905 representing NM_022359. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGAAGGGCACAGACAGCGGGTCTGCTGCCGCCGCGATGCGACTTTGGCTGCTGCTGTCGCGCTCC
 CGCCGGGCTCACTACACGCTTACCGGTCCGGGACGCGACGCGAAGCCCTCAGTCCCCACGGCAGACC
 CCGAGCCGGGAAAGACGGCGCCCGGAGCCAGCCGGGAGCTGGGCAGCAGCGGCCGAGGAGGAAGAAGCA
 GCTGCGGGCGCCACACCCTGGATGAGAGATTATTTGCAGAGGATGATGGGGAGATGGTACCCAGAACG
 AGTCACACAGCAGCTTTTCTTAGTGACACTAAAGATCGAGGCCCTCCAGTGCAGTCACAGATCTGGAGA
 AGTGGTAAAAGGTCCCGTTTGTGACAGCATATTCCTTGAGAGCATTTGAGAAACCCCTCAGGTACAG
 ACCCAGGCTCTTCGAGACTTTGAGAAGCACCTCAATGACCTGAAGAAGGAGAACTTCAGCCTCAAGCTG
 CGCATCTACTTCTGGAGGAGCGCATGCAACAGAAGTATGAGGCCAGCCGGGAGGACATCTACAAGCGG
 AACATTGAGCTGAAGGTTGAAGTGGAGAGCTTGAAACGAGAACTCCAGGACAAGAAACAGCATCTGGAT
 AAAACATGGGCTGATGTGGAGAACTCAACAGTCAGAAATGAAGCTGAGCTCCGACGCCAGTTTGAGGAG
 CGACAGCAGGAGACGGAGCATGTTTATGAGCTCTTGAGAATAAGATCCAGCTTCTGCAGGAGGAATCC
 AGGCTAGCAAAGAATGAAGCTGCGCGGATGGCAGCTCTGGTGAAGCAGAGAAGGAGTGTAACTGGAG
 CTCTCAGAGAACTGAAGGGAGTCACAAAACTGGGAAGATGTACCAGGAGACCAGGTCAAGCCCGAC
 CAATACACTGAGGCCCTGGCCAGAGGGACAAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_022359
Insert Size:	933 bp


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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_022359.5](#)

RefSeq Size: 1711 bp

RefSeq ORF: 933 bp

Locus ID: 9659

UniProt ID: [Q5VU43](#)

Cytogenetics: 1q21.2

MW: 36.1 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]
Transcript Variant: This variant (3) has alternate 5' and 3' sequences and lacks multiple 3' exons compared to variant 1. The resulting isoform (3) has a longer and distinct N-terminus and a truncated C-terminus compared to isoform 1.