

## Product datasheet for **RG214068**

### **PDE4DIP (NM\_001002812) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE4DIP (NM_001002812) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDE4DIP
Synonyms:	CMYA2; MMGL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG214068 representing NM\_001002812  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTAATGGATATCGCACTCTGTCCAGCACCTCAATGACCTGAAGAAGGAGAACTTCAGCCTCAAGC  
 TGCGCATCTACTTCTGGAGGAGCGCATGCAACAGAAGTATGAGGCCAGCCGGGAGGACATCTACAAGCG  
 GAACATTGAGCTGAAGGTTGAAGTGGAGAGCTTAAACGAGAAGTCCAGGACAAGAAACAGCATCTGGAT  
 AAAACATGGGCTGATGTGGAGAATCTCAACAGTCAGAATGAAGCTGAGCTCCGACGCCAGTTTGGAGAGC  
 GACAGCAGGAGACGGAGCATGTTTATGAGCTCTTGGAGAATAAGATCCAGCTTCTGCAGGAGGAATCCAG  
 GCTAGCAAAGAATGAAGCTGCGCGGATGGCAGCTCTGGTGAAGCAGAGAAGGAGTGAACCTGGAGCTC  
 TCAGAGAACTGAAGGGAGTCACCAAACTGGGAAGTGTACCAGGAGACCAGGTCAAGCCCGACCAAT  
 AACTGAGGCCCTGGCCAGAGGACAAGAGAATTGAAGAAGTGAATCAGAGCCTGGCTGCCAGGAGAG  
 GCTTGTAGAACAGCTATCTCGGAGAAACAACACTGCTACATCTGTTGGAGGAGCCAATAGCATGGAA  
 GTGCAGCCATGACTGAAGAGTTGCTGAAACAACAAAAGCTGAATTCACATGAGACCACTATAACTCAGC  
 AGTCTGTATCTGATTCCCACTTGGCAGAAGTCCAGGAAAAATCCAGCAAACAGAGGCCACCAACAAGAT  
 TCTTCAAGAGAACTTAATGAAATGAGCTATGAACTAAAGTGTGCTCAGGAGTCTCTCAAAAGCAAGAT  
 GGTACAATTCAGAACCTCAAGGAACTCTGAAAAGCAGGGAACGTGAGACTGAGGAGTTGTACCAGGTAA  
 TTGAAGGTCAAAATGACACAATGGCAAAGCTTCGAGAAATGCTGCACCAAAGCCAGCTTGGACAACCTCA  
 CAGCTCAGAGGGTACTTCTCCAGCTCAGCAACAGGTAGCTCTGCTTGATCTTCAGAGTCTTTATTCTGC  
 AGCCAATTGAAATACAGAAGCTCCAGAGGTGGTACGACAGAAAGAGCGCCAACCTGGCTGATGCCAAAC  
 AATGTGTGCAATTTGTAGAGGCTGCAGCACAGAGAGTGAACAGCAGAAAGAGGCTTCTTGGAAACAATA  
 CCAGGAATTGCGAAAAGCCTTGCAGCAGCTACAAGAAGAATTGCAGAATAAGAGCCAACAGCTTCGTGCC  
 TGGGAGGCTGAAAAATACAATGAGATTCGAACCCAGGAACAAAACATCCAGCACCTAAACCATAGTCTGA  
 GTCACAAGGAGCAGTTGCTTCAGGAATTCGGGAGCTCCTACAGTATCGAGATAACTCAGACAAAACCTT  
 TGAAGCAAATGAAATGTTGCTTGAAGAACTTCGCCAGCGAATACATGATAAAGCTGTTGCTCTGGAGCGG  
 GCTATAGATGAAAAATCTCTGCTCTAGAAGAGAAAGAAAAAGAACTGCGCCAGCTTCGTCTTGTGTGA  
 GAGAGCGAGATCATGACTTAGAGAGACTGCGCGATGCTCCTCTCCTCAATGAAGTACTATGCAAAGTAT  
 GGAGAGTCTCCTGAGGGCAAAGGCTGGAAGTGAACAGTTATCTACTCTGTCAAACCTCCAGTGG  
 CTGAAAGAAGAAATGAAACCAATTTAGCCGTTGGCAGAAGGAACAAGAGATCATTACAGCAGTTAC  
 AGACGCTCTTTCATGATAGGAACAAGAAAGTGGAGGATCTTAGTGCAACACTGCTCTGCAAACCTGGACC  
 AGGGCAGAGTGAGATAGCAGAGGAGCTGTGCCAGCGTCTACAGCGAAAGGAAAGGATGCTGCAGGACCTT  
 CTAAGTGATCGAAATAACAAGTCTGGAACATGAAATGGAGATTCAGGCTGCTTCAAGTCTGTGAGCA  
 CCAGGGAGCAGGAAAGCCAAGCTGCTGCAGAGAAGTTGGTGAAGCCTTAATGGAAGAAATTCAGAATT  
 ACAGGCCCTGCGCCAATATTTAGGAGGGAGAGACTCCCTGATGTCCCAAGCACCCATCTCTAACCAACA  
 GCTGAAGTACCCCACTGGCTGTCTTGGAAAACAGACTGATCAAGTTCAATGCAGATACCTTCCAGAG  
 ATGATAGCACTTCACTGACTGCCAAAGAGGATGTCAGCATACCCAGATCCACATTAGGAGACTTGGACAC  
 AGTTGCAGGGCTGAAAAAAGAACTGAGTAATGCCAAAGAGAACTTGAAGTCAATGGCTAAAAAAGAAAGA  
 GAAAGTCAGATGGAACCTTCTGCTCTACAGTCCATGATGGCTGTGCAGGAAGAAGAGCTGCAGGTGCAGG  
 CTGCTGATATGGAGTCTCTGACCAGGAACATACAGATTAAGAAGATCTCATAAAGGACCTGCAAATGCA  
 ACTGGTTGATCCTGAAGACATACCAGCTATGGAACGCCTGACCCAGGAAGTCTTACTTCTTCCGGAAAAA  
 GTTGCTTCAAGTAGAATCCAGGGTCAAGAAATTCAGGAAACCGAAGACAACAGTTGCTGCTGATGCTAG  
 AAGGACTAGTAGATGAACGGAGTCGGCTCAATGAGGCCTTACAAGCAGAGAGACAGCTCTATAGCAGTCT  
 GGTGAAGTTCCATGCCATCCAGAGAGCTCTGAGAGAGACCGAACTCTGCAGGTGGAAGTGAAGGGGCT  
 CAGGTGTTACGCAGTCGGCTAGAAGAAGTCTTGAAGAAGCTTGGAGCGCTTAAACAGGCTGGAGACCC  
 TGGCCGCCATTGGAGGTGCAGCTGCAGGGGATGACACCGAAGATACAAGCACTGAGTTCAGTCTGACAGTAT  
 TGAGGAGGAGGCTGCACACCATAGTCACCAGCAACTA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:** >RG214068 representing NM\_001002812  
 Red=Cloning site Green=Tags(s)

MSNGYRTLSQLNDLKKENFSLKLRIFYLEERMQQKYEASREDIYKRNIELKVEVESLKRELQDKKQHLD  
 KTWADVENLSQNEAELRRQFEERQQE TEHVYELLEENKIQLLQEE SRLAKNEARMAALVEAEKECNLEL  
 SEKLGKVTKNWEDVPGDQVKPDQYTEALAQDRKIEELNQSLAAQERLVEQLSREKQQLLHLLLEPTSM  
 VQPMTEELLKQKLNSHETTITQQSVSDSHLAELQEKIQQTEATNKILQEKLNEMSYELKCAQESSQKQD  
 GTIQNLKETLKSRETEREEL YQVIEGQNDTMAKLREMLHQSQLGQLHSSEGTSPAQQVALLDLQSAFC  
 SQLEIQKLQRVVRQKERQLADAKQCVQFVEAAAHESEQQKEASWKHNQELRKALQQLQEELQNKSSQQLRA  
 WEAKEYNEIRTQEQNIQHLNHSLSHKEQLLQEFRELLQYRDNSDKTLEANEMLLEKLRQRIDHKAVALER  
 AIDEKFSALEEKEKELRQLRLAVRERDHLERLRDVLSSNEATMQSMESLLRAKGLEVEQLSTTCQNLQW  
 LKEEMETKFSRWQKEQESIQQQLTSLHNRNEVEDLSATLLCKLGPQSEIAEELCQRLQRKERMLQDL  
 LSDRNKQVLEHEMEIQGLLQSVSTREQESQAAAEKLVQALMERNSELQALROYLGGRDLSMQAPI SNQQ  
 AEVPTPGCLGKQTDQGSQIPSRDDSTSLTAKEDVSI PRSTLGDLDTVAGLEKEL SNAKEEELMAKKER  
 ESQMEL SALSMMAVQEEELQVQAADMESL TRNIQIKEDLIKDLQMQLVDPEDIPAMERLTQEVLLLREK  
 VASVESQGEISGNRRQQLLLMLEGLVDESRSLNEALQAERQLYSSLVKFHAHPESSEDRRTLQVELEGA  
 QVLRSLREEVLGRSLERLNRLETAAIGGAAAGDDTDTSTEF TDSIEEEAAHSHSQQL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

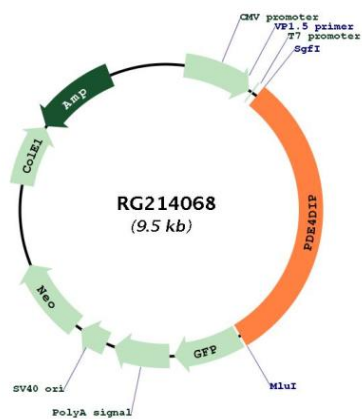


**ACCN:** NM\_001002812

**ORF Size:** 2907 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001002812.1</a> , <a href="#">NP_001002812.1</a>
<b>RefSeq Size:</b>	4833 bp
<b>RefSeq ORF:</b>	2910 bp
<b>Locus ID:</b>	9659
<b>UniProt ID:</b>	<a href="#">Q5VU43</a>
<b>Cytogenetics:</b>	1q21.2
<b>Gene Summary:</b>	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]

## Product images:



Circular map for RG214068