

## Product datasheet for **MC221997**

### **Pde4a (NM\_183408) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde4a (NM_183408) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pde4a
Synonyms:	D9Ertd60e; Dpde2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221997 representing NM\_183408  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCCTCCGGCCGCCCTCGGAGAGGAGCCTGTCTCTCTCTTCCCGGGCCCGAGAGGGCCAGG  
 CCACCCTGAAGCCGCCCCCCAGCACCTGTGGCGGACCCGAGGACCCGATCCGCATCCAGCAGCGCGG  
 CTA<sup>CT</sup>CGGACAGT<sup>GCC</sup>GAGCGCTCAGAGCCAGAGCGCTCGCCGCACCGGCCCATAGAGCGCGCCGACGCC  
 GTGGACTGGCGACCGGCCAGGCTGCGGACTACCCGCATGTCTGGCCCTCGTCTTCCACGGCACCG  
 GTACCGGCGGAGGACAGT<sup>AGG</sup>CGCTTGGAGGCAGAAAATGGGCCAACACCGTCCCCTGGCCGAGCCC  
 CCTGGACTCGCAGGCGAGCCGGGGCTTATGCTGCATGCCGGGCGAGCCACCAGCCAGCGCCGAGAATCC  
 TTCCTCTATCGCTCAGACAGCGACTATGACATGTACCGAAGACTATGTCCAGGAACTCATCCGTCGCCA  
 GCGAAGCGCATGGTGAAGACCTATTGTGACCCCGTTTGCCAGGTGCTGGCCAGTCTCCGCAACGTTTCG  
 AAGCAACTTCTACTCCTAACCAATGTGCCATCCCAGCAACAAGAGGTCCCCGCTGGGCGGGCCACCC  
 TCTGTCTGCAAGGCCACACTGTCAGAGGAGACATGCCAGCAGCTGGCCCGGAGACCTGGAAGAGCTGG  
 ATTGGTGCCTGGAGCAGCTGGAGACCATGCAGACCTACCGCTCTGTGACGAGATGGCCTCACACAAGTT  
 TAAAAGGATGCTGAACCGGGA<sup>ACT</sup>CACACACCTGTCCGAAATGAGCAGGTGAGGAAACCAGGTCTCAGAG  
 TACATTTCCAACCGTTCCTAGACAAGCAGCAGCAAGTGGAGATCCCATCGCCCACGCCGACAGAGAC  
 CTTTCCAGCAGCCCCACCAGCAGCAGTGCAGCAGGCCAGCCCATGTCTCAGATCACAGGGCTGAAAAA  
 GCTGGTACACACCGGAAGCTTGAACATCAATGTCCACGATTTGGAGTCAAGACAGATCAGGAGGACCTC  
 TTAGCACAAAGAACTGGAGA<sup>ACT</sup>TGAGCAATGGGGCTGAACATCTTTTGTGTGTCGGAGTACGCTGGAG  
 GCGCTTCACTCAGCTGTATCATGTATCGATATCCAGGAGCGGGACTTACTGAAGAAATCCACATCCC  
 CGTGGACACCATGATGACATACATGCTGACGCTGGAGGACCACTACCACGCTGACGTGGCCTACCACAAC  
 AGCCTGCACGCAGCCGATGTGCTACAGTCCACACATGTGCTGCTGGCCACGCCTGCACTGGATGCCGTGT  
 TCACAGACCTGGAGATTCTTGTGCTCTCTTTCGCTGCTGCCATCCATGACGTGGACCACCCTGGCGTCTC  
 CAACCAGTTCTAATCAACACCAATTCCGGAGCTGGCATTGATGTACAACGATGAGTCTGTGCTTGAAGAC  
 CACCACCTGGCTGTGGGATTCAAGCTGCTGCAAGAAGAGA<sup>ACT</sup>GCGACATCTTCCAGAACCTCAGCAAGC  
 GCCAGCGGAGAGCCTGCGCAAGATGGTCATCGACATGGTGTGGCCACAGACATGTCCAAGCACATGAC  
 CCTTCTGGCTGACCTGAAGACTATGGTAGAGACGAAGAAAGTACCAGCTCTGGAGTTCTTGTGCTGGAC  
 AACTACTCTGACCGTATCCAGGTCTCAGGAACATGGTGCATGTGCAGACCTCAGCAATCCCACCAAGC  
 CCCTGGAGCTGTACCGACAATGGACTGATCGCATCATGGCTGAGTTCTTCCAGCAGGGTGACCGAGAACG  
 GGAACGCGGAATGGAGATTAGCCCCATGTGTGACAAGCACACAGCCTCTGTGGAGAGTCTCAGGTGGGC  
 TTCATCGACTATATTGTTCA<sup>CC</sup>CACTGTGGGAGACGTGGGCCGATCTCGTCCACCCCGATGCCAAAGACA  
 TCCTGGACACGCTGGAAGACAACCGGATTGGTATCACAGTGCCATCCGCCAGAGTCCCTCCCAACCCCT  
 GGAAGAGGAGCCAGGAGTGTCTAGCGATCCGGCCCTGCCTGACAAGTTCCAATTTGAGCTCACCTTGGAG  
 GAAGAGGATGAAGAGGATTCATTGGAGGTTCCAGGATTGCCTTGCCTGAGGAACTCTCCTGGCTCCAC  
 ATGATACCAGAGCTCAAGCCATGGAACAGTCAAAGGTCAAAGGCCAGAGCCCTGCTGTTGTGGAGGTAGC  
 AGAGAGTTTGAAGCAGGAGACAGCCTCAGCACATGGCGCTCCTGAGGAGTCCGCGGAGGCTGTGGGCCAT  
 TCCTTCAGCCTTGAAACCTCTATTCTGCCTGACTTGAGGACCCTGTCCCCTCAGAGGAGGCCAGGGCC  
 TCCTGGGCTCCCTCCATGGCGGAGAGGTGGAGGCCCAAGAGACCATCTGGTGCCATGAGGGCTTG  
 TTCTGCCTGCTCGGGGACATCAGGAGACAATTCTGCCGTCATCTGCTCCAGGCAGGTGGGGTCAAGT  
 GGAGACCCTGCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_183408  
**Insert Size:** 2535 bp

<b>OTI Disclaimer:</b>	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).
<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_183408.3</a> , <a href="#">NP_899668.1</a>
<b>RefSeq Size:</b>	4658 bp
<b>RefSeq ORF:</b>	2535 bp
<b>Locus ID:</b>	18577
<b>UniProt ID:</b>	<a href="#">O89084</a>
<b>Cytogenetics:</b>	9 7.73 cM
<b>Gene Summary:</b>	Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (5) represents the longest transcript and encodes the longest isoform (5).