

## Product datasheet for **MR216607**

### **Pde4a (NM\_183408) Mouse Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>MR216607 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCCTCCGGCCGCCCTCGGAGAGGAGCCTGTCTCTCTCTTCCCGGGCCCGAGAGGGCCAGG  
 CCACCCTGAAGCCGCCCCCCAGCACCTGTGGCGGAGCCGAGGACCCGATCCGCATCCAGCAGCGCGG  
 CTACTCGGACAGTGCCGAGCGCTCAGAGCCAGAGCGCTCGCCGCACCGGCCCATAGAGCGCGCCGACGCC  
 GTGGACTGGCGACCGGCCAGGCTGCGGACTACCCGCATGTCTGGCCCTCGTCTTCCACGGCACCG  
 GTACCGGCGGAGGAGCAGTAGGCGCTTGGAGGCAGAAAATGGGCCAACACCGTCCCCTGGCCGAGCCC  
 CCTGGACTCGCAGGCGAGCCGGGGCTTATGCTGCATGCCGGGGCAGCCACCAGCCAGCGCCGAGAATCC  
 TTCCTCTATCGCTCAGACAGCGACTATGACATGTACCGAAGACTATGTCCAGGAACTCATCCGTCGCCA  
 GCGAAGCGCATGGTGAAGACCTATTGTGACCCCGTTTGCCAGGTGCTGGCCAGTCTCCGCAACGTTTCG  
 AAGCAACTTCTACTCCTAACCAATGTGCCATCCCCAGCAACAAGAGGTCCCCGCTGGGCGGGCCACCC  
 TCTGTCTGCAAGGCCACACTGTCAGAGGAGACATGCCAGCAGCTGGCCCGGAGACCCCTGGAAGAGCTGG  
 ATTGGTGCCTGGAGCAGCTGGAGACCATGCAGACCTACCGCTCTGTGACGGAGATGGCCTCACACAAGTT  
 TAAAAGGATGCTGAACCGGGAACCTCACACACCTGTGCGAAATGAGCAGGTGAGGAAACAGGTCTCAGAG  
 TACATTTCCAACAGTTCCTAGACAAGCAGCAGCAAGTGGAGATCCCATCGCCACGCGCGACAGAGAC  
 CTTTCCAGCAGCCCCACCAGCAGCAGTGCAGCAGGCCAGCCATGTCTCAGATCACAGGGCTGAAAAA  
 GCTGGTACACACCGGAAGCTTGAACATCAATGTCCACGATTTGGAGTCAAGACAGATCAGGAGGACCTC  
 TTAGCACAAAGAACTGGAGAACTTGAGCAATGGGGCTGAACATCTTTTGTGTGTCGGAGTACGCTGGAG  
 CCGCTTCACTCAGCTGTATCATGTATCGATATCCAGGAGCGGGACTTACTGAAGAAATTCACATCCC  
 CGTGGACACCATGATGACATACATGCTGACGCTGGAGGACCACTACCACGCTGACGTGGCCTACCACAAC  
 AGCCTGCACGCAGCCGATGTGCTACAGTCCACACATGTGCTGCTGGCCACGCCTGCACTGGATGCCGTGT  
 TCACAGACCTGGAGATTCTGCTCTCTTTCGCTGCTGCCATCCATGACGTGGACCACCCTGGCGTCTC  
 CAACCAGTTCTAATCAACACCAATTCCGAGCTGGCATTGATGTACAACGATGAGTCTGTGCTTGAGAAC  
 CACCACCTGGCTGTGGGATTCAAGCTGCTGCAAGAAGAGAAGTGCACATCTTCCAGAACCTCAGCAAGC  
 GCCAGCGGAGAGCCTGCGCAAGATGGTATCGACATGGTGTGGCCACAGACATGTCCAAGCACATGAC  
 CCTTCTGGCTGACCTGAAGACTATGGTAGAGACGAAGAAAGTACCAGCTCTGGAGTTCTTGTGCTGGAC  
 AACTACTCTGACCGTATCCAGGTCTCAGGAACATGGTGCATGTGCAGACCTCAGCAATCCCACCAAGC  
 CCCTGGAGCTGTACCGACAATGGACTGATCGCATCATGGCTGAGTTCTTCCAGCAGGGTGACCGAGAACG  
 GGAACGCGGAATGGAGATTAGCCCCATGTGTGACAAGCACACAGCCTCTGTGGAGAAGTCTCAGGTGGGC  
 TTCATCGACTATATTGTTCACCCACTGTGGGAGACGTGGGCCGATCTCGTCCACCCCGATGCCAAAGACA  
 TCCTGGACACGCTGGAAGACAACCGGATTGGTATCACAGTGCCATCCGCCAGAGTCCCTCCCAACCCCT  
 GGAAGAGGAGCCAGGAGTGTCTCAGCGATCCGGCCCTGCCTGACAAGTTCCAATTTGAGCTCACCTTGGAG  
 GAAGAGGATGAAGAGGATTCATTGGAGGTTCCAGGATTGCCTTGCCTGAGGAACTCTCCTGGCTCCAC  
 ATGATACCAGAGCTCAAGCCATGGAACAGTCAAAGGTCAAAGGCCAGAGCCCTGCTGTTGTGGAGGTAGC  
 AGAGAGTTTGAAGCAGGAGACAGCCTCAGCACATGGCGCTCCTGAGGAGTCCGCGGAGGCTGTGGGCCAT  
 TCCTTCAGCCTTGAAACCTCTATTCTGCCTGACTTGAGGACCCTGTCCCCTCAGAGGAGGCCAGGGCC  
 TCCTGGGCTCCCTCCATGGCGGAGAGGTGGAGGCCCAAGAGACCATCTGGTGCCATGAGGGCTTG  
 TTCTGCCTGCTCGGGACATCAGGAGACAATTCTGCCGTCATCTGCTCCAGGCAGGTGGGGTTCAGGT  
 GGAGACCCTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR216607 protein sequence  
 Red=Cloning site Green=Tags(s)

MEPPAAPSERLSLSLPGPREGQATLKPPPQHLWRQPRTPIRIQQRGYSDSAERSEPERSPHRPIERADA  
 VDTGDRPGLRTRMSWPSSFHGTGTGGSSRRLEAENGPTSPGRSPLDSQASPLMLHAGAATSQRRES  
 FLYRSDSDYDMSPKTMSRNSVASEAHGEDLIVTFPAQVLASLRNVRSNFSLLTNVPIPSNKRSPGLGGP  
 SVCKATLSEETCQQLARETLEELDWCLEQLETMQTYRSVSEMASHKFKRMLNRELTHLSEMSRSGNQVSE  
 YISNTFLDKQHEVEIPSPTPRQRPFQPPPAAVQQAQPMQITGLKLVHTGSLNINVPFRGVKTDQEDL  
 LAQELENLSKWGLNIFCVSEYAGGRSLSCIMYTIFFQERDLLKKFHIPVDMMTYMLTLEDHYHADVAYHN  
 SLHAADVQLQSTHVLLATPALDAVFTDLEILAALFAAAIHDVDHPGVSNQFLINTNSELALMYNDESLEN  
 HHLAVGFKLLQEENCDIFQNLKRQRQSLRKMVIDMVLATDMSKHMTLLADLKTMVETKKVTSSGVLLLD  
 NYSDRIQVLRNMVHCADLSNPTKPLELYRQWTDRI MAEFFQGDREERERGMEISPMCDKHTASVEKSQVG  
 FIDYIVHPLWETWADLVHPDAQDILDLTLEDNRDWHYHSAIRQSPSPTLEEEPGVLSDPALPDKFQFELTLE  
 EEEDEDSLEVPGLPCTEETLLAPHDTRAQAMEQSKVKGQSPAVVEVAESLKQETASAHAPEESAEAVGH  
 SFSLETSILPDLRTLSPSEEAQGLLGLPSMAAEVEAPRDHLAAMRACSACSGTSGDNSAVISAPGRWGS  
 GDPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

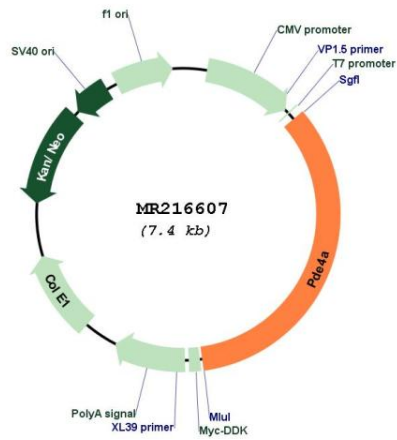
SgfI-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_183408
<b>ORF Size:</b>	2535 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_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>MW:</b>	93.6 kDa
<b>Gene Summary:</b>	Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216607