

## Product datasheet for **MC221706**

### **Pde10a (NM\_011866) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde10a (NM_011866) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pde10a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221706 representing NM\_011866  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGATGGACCTCTAAACAATGCGAGTTGCTTCCGAAGGCTGACCGAGTGTTCCTCAGCCCCAGTT  
 TGACGGATGAAAAGGTGAAGGCCTATCTTTCTCTCCATCCCAGGTATTAGATGAATTTGTTTCTGAAAG  
 TGTTAGTGCAGAGACTGTGAAAAAGTGGCTGAAGAGGAAAACCAACAAAGCAAAAGATGAACCATCTCCC  
 AAGGAAGTCAAGCAGTACCAGGATACGAATATGCAAGGAGTGTGTACGAGCTGAACAGCTACATAGAGC  
 AGCGCCTGGACACGGGCGGGGACAACCACTGCTCCTCTATGAGCTCAGCAGCATCATCAGGATAGCCAC  
 AAAAGCCGACGGATTTGCACTGTACTTCTTGGAGAGTGAATAATAGCCTGTGTGTGTTACACCACC  
 GGGATGAAGGAAGCCAACCCCGCTCATCCCTGCAGGGCCATCACCCAGGTACCACCATCTCTGCCT  
 ACGTGGCCAAGTCTAGGAAGACGTTGTTGGTAGAGGATATCCTTGGGGATGAGCGATTTCTCGAGGTAC  
 TGGCCTGGAATCAGGAACCCGCATCCAGTCTGTTCTTTGCTTGCCATTGCTACTGCCATTGGAGACTTG  
 ATTGGCATCCTTGAAGTGTACAGGCACTGGGGCAAGAGGCCCTTCTGCCTCAGCCATCAGGAGGTTGCAA  
 CAGCCAATCTTGCTTGGGCTCCGTAGCAATACACCAGGTGCAGGTGTGTAGAGGTCTCGCCAAACAGAC  
 CGAACTGAATGACTTCTACTCGACGTATCAAAGACATACTTTGATAACATAGTTGCCATAGACTCTCTA  
 CTTGAACACATCATGATATATGCAAAAAATCTAGTGAACGCCGACCGCTGCGCGCTTCCAGGTGGACC  
 ACAAGAACAAGGAGCTGTACTCGGACCTGTTTGACATTGGGGAGGAGAAGGAGGGGAAGCCCATCTTCAA  
 GAAGACCAAGGAGATCAGATTTCCATTGAGAAAGGGATTGCTGGTCAAGTGGCAAGAACAGGCGAAGTC  
 TTGAACATTTCCGATGCCTACGCGGACCCTCGCTTAAACAGGGAGGTGGACCTGTACACAGGCTACACCA  
 CGAGAACATTCTGTGTATGCCATAGTGAGCCGAGGCAGCGTGATTGGCGTGGTGCAGATGGTGAACAA  
 GATCAGCGGTAGCGCTTCTCCAAGACAGACGAGAACAACCTTCAAGATGTTTGCTGTCTTCTGCGCACTG  
 GCCTTGCCTGTGCTAACATGTACCACAGGATCCGCCACTCAGAATGCATCTACAGGTTACCATGGAGA  
 AGCTTTCTACCACAGCATCTGCACCTCCGAGGAGTGGCAAGGCCTCATGCGCTTCAACCTACCAGCAGC  
 CATCTGCCGGGACATCGAGCTATTCCACTTTGACATTGGTCTTTTCGAGAACATGTGGCCTGGGATCTTT  
 GTCTACATGATCCATCGGTCTTGTGGGACATCCTGTTTTGAACTTGAAAAATTGTGCCGTTTTATCATGT  
 CTGTGAAGAAGAACTATCGGCGGTTCTTACCACAACGGAAGCATGCAGTACCGGTGGCACACTGCAT  
 GTATGCCATACTTCAAAACAACAATGGCCTCTTACAGACCTCGAGCGCAAGGCCTGCTAATTGCGTGT  
 CTGTGCCATGACCTGGACCACAGGGCTTCAGTAACAGCTACCTGCAGAAGTTCGACCACCCCTGGCGG  
 CGCTGTACTCCACTCCACCATGGAGCAACACCACTTCTCCAGACGGTGTCCATCCTTCAGCTGGAAGG  
 GCACAATATCTTCTCACCCCTGAGCTCCAGCGAGTACGAGCAGGTGCTGGAGATCATCCGAAAGCCATC  
 ATCGCCACCGACCTCGCCCTATACTTTGGGAACAGGAAGCAGTTGGAGGAGATGTACCAGACAGGGTCCG  
 TGAACCTCCACAACCAAGTCCCATCGAGACCGTGTATCGGCTTGATGACTGCCTGTGATCTTTGCTC  
 TGTGACCAAACTATGGCCAGTTACAAAATTGACAGCGAATGATATATGCAGAATTCTGGGCTGAGGGT  
 GATGAGATGAAGAAGCTGGGCATACAGCCATTCTATGATGGACAGAGACAAGCGAGATGAAGTCCCTC  
 AAGGGCAGCTCGGATTCTACAATGCTGTGGCCATTCCCTGCTATACCACCTTGACGCAGATCCTCCACC  
 CACAGAGCCTCTGCTGAAGGCCTGCAGGGATAACCTCAATCAGTGGGAGAAGGTAATTTCGGGGGAAGAG  
 ACAGCAATGTGGATTTACGGCCCAGGCCGCGCTAGCAAGAGCACACCTGAGAAGCTGAACGTGAAGG  
 TTGAAGACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_011866  
**Insert Size:** 2391 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_011866.2</a> , <a href="#">NP_035996.2</a>
<b>RefSeq Size:</b>	7717 bp
<b>RefSeq ORF:</b>	2391 bp
<b>Locus ID:</b>	23984
<b>UniProt ID:</b>	<a href="#">Q8CA95</a>
<b>Cytogenetics:</b>	17 A1
<b>Gene Summary:</b>	<p>Plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. Can hydrolyze both cAMP and cGMP, but has higher affinity for cAMP and is more efficient with cAMP as substrate. May play a critical role in regulating cAMP and cGMP levels in the striatum, a region of the brain that contributes to the control of movement and cognition.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) contains an alternate exon in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon compared to variant 1. The resulting protein (isoform 2) has a shorter N-terminus compared to isoform 1.</p>