

## Product datasheet for **RN207923**

### **Pde10a (NM\_022236) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde10a (NM_022236) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pde10a
Synonyms:	Pde10a3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN207923 representing NM\_022236  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGATGGACCTCTAACAATGCGAGTTGCTTCCGAAGGCTGACCGAGTGTTCCTCAGCCCCAGTT  
 TGACGGATGAAAAGGTGAAGGCCTATCTTCCCTCCATCCCAGGTATTAGACGAGTTTGTTCGAAAG  
 TGTTAGTGCAGGACTGTGGAGAAGTGGCTGAAGAGGAAAAACAACAAAGCAGAAGATGAACCATCTCCT  
 AAGGAAGTCAGCAGGTACCAGGACACGAACATGCAGGGAGTCGTGTACGAGCTGAACAGCTACATAGAGC  
 AGCGCCTGGACACCGCGGGGACAACCACTGCTCCTGTACGAGCTAAGCAGTATCATCAGGATAGCCAC  
 AAAAGCCGACGGATTTGCACTGTACTTCTTGGAGAGTGAATAATAGTCTGTGTCTTACACACCACC  
 GGAATGAAGGAAGGTCAACCCCTCTCATCCCGCAGGGCCATCACCCAGGGCACCACCATCTCTGCCT  
 ATGTGGCCAAGTCTAGGAAGACCCTGCTGGTAGAGGACATCCTTGGGGATGAGCGATTTCCAGAGGCAC  
 TGGTCTGGAGTCAGGAACCCGAATCCAGTCTGTCTTTGCTTGCCTATTGCTCACTGCCATTGGAGACTTG  
 ATTGGCATCCTTGAAGTGTACAGGCACTGGGGCAAAGAGGCCCTTCTGCCTCAGCCATCAGGAGGTTGCAA  
 CCGCAATCTCGCTTGGGCTTCCGTAGCAATACACCAGGTGCAGGTGTGCAGAGGTCTCGCAAGCAGAC  
 CGAACTGAATGACTTCTGCTCGATGTATCAAAGACATACTTTGATAACATAGTCGCCATAGACTCTCTA  
 CTTGAACACATCATGATATATGCAAAAAATCTAGTGAACGCCGACCGCTGCGCGCTTCCAGGTGGACC  
 ACAAGAACAAGGAGCTGTACTCGGACCTGTTTGACATTGGGGAGGAGAAGGAGGGGAAGCCCGTCTTCAA  
 GAAGACCAAGGAGATCAGATTTCCATTGAGAAAGGGATTGCTGGTCAAGTGGCAAGAACGGGAGAAGTC  
 CTGAACATTCCTGATGCCTACGCAGACCCGCGCTTAAACAGGGAGGTGGACCTGTACACAGGCTATACCA  
 CGCGGAACATTTGTGTATGCCATAGTGAGCCGCGCAGCGTGATCGGTGTGGTGCAAAATGGTTAACAA  
 GATCAGCGGCAGCGCCTTCTCCAAGACGGATGAGAACAACCTTCAAGATGTTTGCTGTCTTCTGCGCTCTG  
 GCCCTGCACTGCGCTAACATGTACCACAGGATCCGCCACTCAGAGTGCATCTACAGGTTACCATGGAGA  
 AGCTGTCTTACCACAGCATCTGCACCTCTGAGGAATGGCAAGGCCTCATGCACTTCAACTTGCCAGCAGC  
 CATCTGCCGGACATCGAGCTATTCCACTTTGACATTGGTCTTTGAGAACATGTGGCCTGGGATCTTT  
 GTCTACATGATCCATCGGTCTTGTGGGACATCCTGTTTTGAACTTGAAAAATGTGCCGTTTTATCATGT  
 CTGTGAAGAAGAACTATAGGCGGGTTCCTTACCACAACGGAAGCATGCAGTCACGGTGGCGCACTGCAT  
 GTACGCCATACTTCAAAACAACAATGGCCTTTCACAGACCTTGAGCGCAAAGGCCTGCTAATTGCCTGT  
 CTGTGCCATGACCTGGACCACAGGGCTTCAGTAACAGCTACCTGCAGAAATTCGACCACCCCTGGCTG  
 CGTTGTACTCCACTCCACCATGGAGCAACACCACTTCTCCAGACGGTGTCCATCCTCCAGCTGGAAGG  
 ACACAACATCTTCTCACCCCTGAGCTCCAGCGAGTACGAGCAGGTGCTGGAGATCATCCGAAAGCCATC  
 ATCGCCACTGACCTCGCACTGTACTTTGGGAACAGGAAGCAGTTGGAGGAGATGTACCAGACAGGGTCGC  
 TGAACCTCCACAACCAAGTCCCATCGAGACCGCGTCATCGGCTTGATGACTGCCTGCGATCTTTGCTC  
 TGTGACGAAACTATGGCCAGTTACAAAATTGACAGCAAATGATATATATGCAGAGTTCTGGGCTGAGGGG  
 GATGAGATGAAGAAGTTGGGGATACAGCCCATCCCTATGATGGACAGAGACAAGCGAGATGAAGTCCCTC  
 AAGGACAGCTTGGATTCTACAATGCTGTGGCCATCCCCTGCTATACCACCTGACGCAGATCCTCCCACC  
 CACAGAGCCTCTGCTGAAGGCCGCAGGGATAACCTCAATCAGTGGGAGAAGGTAATTCGAGGGGAAGAG  
 ACAGCAATGTGGATTTAGGCCCAAGCAACTAGCAAAAGCACATCTGAGAAGCCGACAGGAAGGTGATG  
 ACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_022236  
**Insert Size:** 2385 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_022236.1</a> , <a href="#">NP_071572.1</a>
<b>RefSeq Size:</b>	3427 bp
<b>RefSeq ORF:</b>	2385 bp
<b>Locus ID:</b>	63885
<b>UniProt ID:</b>	<a href="#">Q9QYJ6</a>
<b>Cytogenetics:</b>	1q12
<b>Gene Summary:</b>	has phosphodiesterase activity for cAMP and has cAMP inhibited activity for cGMP; activity is detected in brain striatum and testis [RGD, Feb 2006]