

Product datasheet for **MC229044**

Pde10a (NM_001290707) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde10a (NM_001290707) 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: >MC229044 representing NM_001290707
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGAAGAAGCGCAAAGCCCTCGAGGGTGGAGGAGAACCCAGCTCCCAGAGGAGGAACCCACTGCCT
 GGTTTGGGGCAGCAGCGAGGAGCCAGGCTGCCTCCCATTTCGCACTTAAAGGTGGGAGCAAGGGCCCCGC
 TCTATTGGCACTTCGAAACCGCACAGACTCTCGGGGGCAGATGAGCAATGACTCCACAGAAGGCACCGTG
 GGCTCCTGCAACGCAACAGGTTTACGGATGAAAAGGTGAAGGCCTATCTTTCTCCATCCCCAGGTAT
 TAGATGAATTTGTTTCTGAAAGTGTAGTGCAGAGACTGTGAAAAGTGGCTGAAGAGGAAAACCAACA
 AGCAAAAGATGAACCATCTCCAAGGAAGTCAGCAGGTACCAGGATACGAATATGCAGGGAGTCGTGTAC
 GAGCTGAACAGCTACATAGAGCAGCGCTGGACACGGCGGGGACAACCACCTGCTCTATGAGCTCA
 GCAGCATCATCAGGATAGCCACAAAAGCCGACGGATTTGCACTGACTTCCCTGGAGAGTGAATAATAG
 CCTGTGTGTTCATACCACCCGGGATGAAGGAAGGCCAACCCCGGCTCATCCCTGCAGGGCCCATACC
 CAGGGTACCACCATCTCTGCCTACGTGGCCAAGTCTAGGAAGACGTTGTTGGTAGAGGATATCCTTGGGG
 ATGAGCGATTTCCCTCGAGGTAAGTGGCCTGGAATCAGGAACCCGCATCCAGTCTGTCTTTGCTTGCCAT
 TGTCACTGCCATTGGAGACTTGATTGGCATCCTTGAACGTACAGGCACTGGGGCAAAGAGGCCCTTCTGC
 CTCAGCCATCAGGAGGTTGCAACAGCCAATCTTGCTTGGGCTTCCGTAGCAATACACCAGGTGCAGGTGT
 GTAGAGGTCTCGCCAAACAGACCGAAGTGAATGACTTCTACTCGACGTATCAAAGACATACTTTGATA
 CATAGTTGCCATAGACTCTACTTGAACACATCATGATATGCAAAAAATCTAGTGAACGCCGACCGC
 TGCGCGCTCTCCAGGTGGACCACAAGAACAAGGAGCTGACTCGGACCTGTTTGACATTGGGGAGGAGA
 AGGAGGGAAGCCCATCTCAAGAAGCAAGGAGATCAGATTTCCATTGAGAAAAGGATTGCTGGTCA
 AGTGGCAAGAACAGGCGAAGTCTTGAACATTCCCGATGCCTACGCGGACCCCTCGCTTTAACAGGGAGGTG
 GACCTGTACACAGGCTACACCACGAGGAACATTCTGTGTATGCCCATAGTGAAGCGAGGAGCGTGATTG
 GCGTGGTGCAGATGGTGAACAAGATCAGCGGTAGCGCCTTCTCCAAGACAGACGAGAACAACCTTCAAGAT
 GTTTGCTGTCTTCTGCGCACTGGCCTTGCCTGTGCTAACATGTACCACAGGATCCGCCACTCAGAATGC
 ATCTACAGGGTTACCATGGAGAAGCTTTCTACCACAGCATCTGCACCTCCGAGGAGTGGCAAGGCCCTCA
 TGCGCTTCAACCTACCAGCAGCATCTGCCGGACATCGAGCTATTCCACTTTGACATTGGTCTTTTGA
 GAACATGTGGCCTGGGATCTTTGTCTACATGATCCATCGGTCTTGTGGGACATCCTGTTTGAACCTTGA
 AAATTGTGCCGTTTATCATGTCTGTGAAGAAGAACTATCGGCGGTTTCTTACCACAACCTGGAAGCATG
 CAGTCACGGTGGCACACTGCATGTATGCCATACTTCAAAACAACATGGCCTCTTACAGACCTCGAGCG
 CAAAGGCCTGCTAATTGCGTGTCTGTGCCATGACCTGGACCACAGGGGCTTCAGTAACAGCTACCTGCAG
 AAGTTCGACCACCCCTGGCGGGCTGTACTCCACCTCCACCATGGAGCAACACCACTTCTCCCAGACGG
 TGTCCATCCTCAGCTGGAAGGGCACAATATCTTCCACCTGAGCTCCAGCGAGTACGAGCAGGTGCT
 GGAGATCATCCGCAAAGCCATCATCGCCACCGACCTCGCCCTATACTTTGGGAACAGGAAGCAGTTGGAG
 GAGATGTACCAGACAGGGTCGCTGAACCTCCACAACCAGTCCCATCGAGACCGTGCATCGGCTTGATGA
 TGACTGCCTGTGATCTTTGCTCTGTGACCAAATATGGCCAGTTACAAAATTGACAGCGAATGATATATA
 TGCAGAATCTGGGCTGAGGGTGTGAGATGAAGAAGCTGGGCATACAGCCCATCTATGATGGACAGA
 GACAAGCGAGATGAAGTCCCTCAAGGGCAGCTCGGATTCTACAATGCTGTGGCCATTCCTGCTATACCA
 CCTTGACGCAGATCCTCCACCCACAGACCTCTGCTGAAGGCCTGCAGGGATAACCTCAATCAGTGGGA
 GAAGGTAATTCGCGGGGAAGAGACAGCAATGTGGATTTCAAGCCAGGCCCGCGCCTAGCAAGAGCAC
 CCTGAGAAGCTGAACGTGAAGGTTGAAGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001290707
Insert Size: 2553 bp

OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001290707.1 , NP_001277636.1
RefSeq Size:	7763 bp
RefSeq ORF:	2553 bp
Locus ID:	23984
UniProt ID:	Q8CA95
Cytogenetics:	17 A1
Gene Summary:	<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 (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>