

## Product datasheet for **MG216159**

### **Pde1a (NM\_001159582) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde1a (NM_001159582) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pde1a
Synonyms:	AI987702; AW125737
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG216159 representing NM\_001159582  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGTCTACTGATACGGACATCGAAGAATTGAAAAACGCCACTTACAAGTATCTCATTGGAGAACAGA  
 CCGAGAAGATGTGGCAGCGCCTGAAGGGAATACTAAGATGCTTAGTGAAGCAGCTGGAGAAAAGGTGATGT  
 CAACGTTGTTGACCTAAAGAAGAATATCGAATATGCAGCATCAGTACTGGAAGCTGTTTACATCGATGAG  
 ACAAGAAGACTGCTGGACACAGAGGATGAACTCAGCGACATCCAGACTGACTCCGTCCTCCGGAAGTCC  
 GGGATTGGTTGGCTTCAACTTTACACGCAAAATGGGGATGATGAAAAAGAAGCCTGAAGAAAAACAAA  
 GTTTCGCAGCATTGTCCATGCTGTCCAGGCTGGGATTTTGTGGAAAGGATGTACAGGAAGAACTATCAC  
 ATGTTGGTTTGACATATCCTGCAGCTGCATAGTGACACTCAAGGAAGTTGATAAATGGTCTTTTGATG  
 TATTTGCCTTAAATGAAGCAAGCGGGGAGCATAGCCTGAAGTTTATGATTTATGAACTCTTACCAGATA  
 TGATCTTATCAACCGCTCAAGATTCCTGTTTCTTGCCTAATTGCCTTTCGAGAAGCCTTAGAAGTTGGT  
 TACAGCAAGCACAAAAATCCATATCATAATTTGGTCCATGCAGCTGACGCTCACTCAAAGTGCATTATA  
 TAATGCTTCATACAGGTATCATGCACTGGCTCACTGAACTGGAAATTTAGCCATGGTCTTTCGAGCTGC  
 CATTATGATTATGAGCACACAGGAACAACAACAACTTCCATATTCAGACGAGGTCCGGACGTTGCTATT  
 CTGTACAACGACCGCTCAGTGTGAGAATCACCACGTCAGCGCAGCCTACAGACTTATGCAAGAGGAGG  
 AAATGAATATTTGGTAAATTTGTCTAAAGATGACTGGAGGGATCTTCGGAAGTATGATTGAAATGGT  
 CTTAGCGACAGACATGTCAGGGCATTTCAGCAAATTAAGAAACAGCTTGCAGCAGCCGGAA  
 GGGATTGACAGAGCCAAAACATGTCCCTGATACTCCATGCAGCTGACATCAGCCACCCAGCCAAAACCT  
 GGAAGTTGCACTACAGATGGACCATGGCCCTAATGGAGGAGTTTTCTGCAGGGAGACAAGAAGCTGA  
 ATTAGGGCTTCCATTTTCTCACTTTGTGATCGGAAGTCAACAATGGTTGCCAGTCGCAATAGGTTTC  
 ATTGATTTCATAGTGGAGCCAACGTTTTCTCTCTGACGACTCAACAGAGAAAATTGTCATTCTCTTA  
 TAGAGGAAGCTTCAAAGTACAGTCTTCAAACACGGGGCAAGCAGCTCGTCCACCATGATTGGTTCCA  
 TGTTGCTGACTCTGAGGCGGTCAAATACAAAAGGCTCCGTGTGTGATGGGAGCTATGCCCCAGACTAC  
 TCGCTCTCAGCTGTGGATCTGAAGAGTTTCAAAAACAACCTGGTGGACATCATTACAGCAGAAACAAGAGA  
 GGTGAAAAGAGTTGGCTGCCAAGGTGAAGTCTTTCATAAGAAGTTCAGAAGAGTTAGGAAATACTGA  
 AGAAAAGCATGCTGACACAGTCCA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG216159 representing NM\_001159582  
 Red=Cloning site Green=Tags(s)

MGSTDDIEELENATYKYLIGEQTAKMWRKLGILRCLVKQLEKGDVNVVDLKKNIEYAASVLEAVYIDE  
 TRRLDTEDELSDIQTDSVPSEVRDWLASTFTRKMGMMKKKPEEKPKFRSIVHAVQAGIFVERMYRKNYH  
 MVGLTYPAAVIVTLKEVDKWSFDVFALNEASGEHSLKFMIEYELFTRYDLINRFKIPVSCLIAFAEALVGV  
 YSKHKPNYPYHNLVHAADVTQTVHYIMLHTGIMHWL TELEILAMVFAAAIHDYEHTGTTNNFHIQTRSDVAI  
 LYNDRSVLENHHVSAAYRLMQEEEMNILVNL SKDDWRDLRNLVIEMVLATDMSGHFQQIKNIRNSLQQPE  
 GIDRAKTM SLILHAADISHPAKTWKLHYRWTMALMEEFFLQGDKEAELGLPFSPLCDRKSTMVAQSQIGF  
 IDFIVEPTFSLLDSTEKIVIPLEIEEASKSQSSNYGASSSSTMIGFHVADSLRRSNTKGSVCDGYSYAPDY  
 SL SAVDLKSFKNLVDIIQONKERWKELAAQGE LLDLHKNSEELGNTEEKHADTRP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

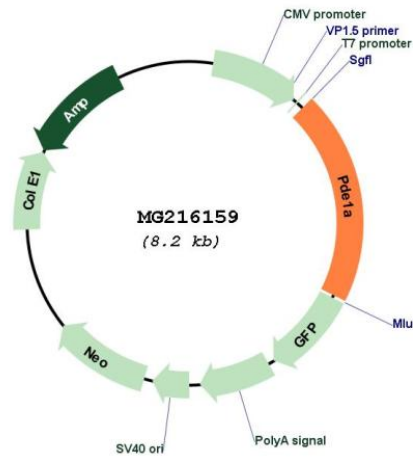
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_001159582
<b>ORF Size:</b>	1635 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_001159582.1</a> , <a href="#">NP_001153054.1</a>
<b>RefSeq Size:</b>	4514 bp
<b>RefSeq ORF:</b>	1638 bp
<b>Locus ID:</b>	18573
<b>UniProt ID:</b>	<a href="#">Q61481</a>
<b>Cytogenetics:</b>	2 C3
<b>Gene Summary:</b>	Cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes. Has a higher affinity for cGMP than for cAMP (By similarity).[UniProtKB/Swiss-Prot Function]