

## Product datasheet for **MG216161**

### **Pde1c (NM\_001159956) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde1c (NM_001159956) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pde1c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG216161 representing NM\_001159956  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCCTACAGTATTCAGTTACGGTCTTTGGTCAAGCAATTAGAACGAGGAGAGGCCCTCTGTGGTAGACC  
 TTAAGAAGAATCTGGAATATGCAGCCACAGTGCCTGAATCTGTATATATTGATGAAACAAGCGACTGCT  
 GGATACAGAGGATGAGCTTAGTGACATTCAATCAGATGCTGTGCCTTCAGAAGTTCGGGATTGGCTGGCC  
 TCCACCTTACACCGCAGATGGGATGATGCTTAGGAGAAGTGTGAGAAGCCAGGTTCAAGAGCATCG  
 TCCATGCGGTGCAAGCTGGGATATTTGTGGAAAGAATGTACAGACGGACATCAAACATGGTTGGGCTGAG  
 CTATCCACCGGCTGTAATCGATGCATTGAAGGATGTGGATACGTGGTCTTCGATGTCTTTCCCTCAAT  
 GAGGCCAGTGGAGATCATGCACTGAAGTTCATTTTCTATGAATTACTCACAGTTATGACCTGATCAGCC  
 GTTTTAAGATACCGATTTCTGCACTTGTCTCATTTGTGGAGGCCCTCGAAGTGGTTACAGCAAGCACAA  
 AAATCCTTACCATAACCTGATGCATGCAGCTGACGTACACAGACTGTGCATTACCTCCTTTATAAGACA  
 GGAGTAGCAAACCTGGCTGACAGAGCTGGAGATCTTTGCAATAATCTTTTCGGCTGCCATCCATGACTATG  
 AACATACTGGAAC TACAACAATTTCCACATTCAGACTCGGT CAGATCCAGCTATCCTGTACAATGACAG  
 ATCTGTCTGGAGAACCACCTGAGTGCAGCCTACCGCCTTCTGCAGGAAGACGAAGAGATGAATATT  
 CTGGTTAACCTCTCAAAGGATGACTGGAGGGAGTTTCAAACCTTTGGTTATTGAGATGGTAATGGCCACAG  
 ATATGTCTGTCAATTCAGCAAATCAAAGCCATGAAGACAGCCCTGCAGCAACCAGAAGCAATTGAGAA  
 GCCGAAAGCCTTATCCCTCATGTTACACACAGCAGACATCAGTCATCCTGCGAAAGCATGGGACCTGCAC  
 CACCGTGGACCATGTCTCTCTGGAGGAGTCTTTAGACAGGGTGACAGAGAAGCAGAGCTGGGCTGC  
 CATTTTCTCCTTTGTGACAGAAAGTCAACCATGGTTGCTCAGTCACAAGTGGGTTTTATTGACTTCAT  
 TGTGGAGCCACCTTCACTGTGCTCACGGACATGACCGAGAAGATTGTGAGTCCATTAATTGACGAAAGC  
 TCCAGACTGGTGGGACAGGGCAGAGGAGATCAAGTTTGAACAGCATCAACTCATCAGATGCAAAGCGAT  
 CCGGTGTCAAGAGTTCTGGGTGAGTGGTGCAGATCAATCGGGAGCGGTGGCGAGCCAAGGTACCCAAA  
 GAAGAAAAGCCAAGAAGGAAGCTGAAGAGAAGGCTCGCCTGGCTGTGAGGAAAAGCAAAGGAAATGG  
 AAGCCAAAAGCCAAGCTGAACAAGGCACAACCAGCAAAGGCGAGAAAAGACATCAGGAGAAGCCAAAAG  
 TCAAGTCAATGGAACACGCAAGGGTGATAACCCCTCGTGGGAAGAACTCCAAGGAGAAAAGCAGGCGAA  
 AAGCAGCAGAACGGTACTTGAAGACGGTAAAAATAAGGCAGACAAGAAGGATCACTCCAACACCGGAA  
 ATGAGTCAAAGAAAACAGATGGTACAAAGAAGCGTTCTCATGGCTCACCTGCTCCGAGCACTAGTCCAC  
 AAGTCGATTACCTTGCCAGGAGACTACGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG216161 representing NM\_001159956  
 Red=Cloning site Green=Tags(s)

MAYSIQLRSLVKQLERGEASVVDLKKNLEYAATVLESVYIDETRLLDTEDELSDIQSDAVPSEVRDWLA  
 STFTRQMGMLRRSDEKPRFKSIVHAVQAGIFVERMYRRTSNMVGLSYPPAVIDALKDQVDTWSFDVFLN  
 EASGDHALKFIYELLTRYDLISRFKIPIISALVSFVEALEVGYSKHKNPYHNL MHAADVTQTVHYLLYKT  
 GVANWL TELEIFAIIISAAIHDYEHTGTNNFHIQTRSDPAILYNDRSVLENHHL SAAAYRLLQEDEEMNI  
 LVNL SKDDWREFRTLVIEMVMTDMSCHFQQIKAMKTALQQPEAIEKPKALSLMLHTADISHPAKAWDLH  
 HRWTMSLLEEFRRQGDREAELGLPFSPLCDRKMVAQSQVGFIDFIVEPTFTVL TDMTEKIVSPLIDES  
 SQTGGTGQRRSSLNSINSSDAKRSGVKSSGSDGSAPINNSVIPVDYKSFKATWTEVVQINRERWRKVPK  
 EEKAKKEAEEKARLAAEEKQKEMEAKSQAEQGTTSKGEKTSGEAKSQVNGTRKGDNPRGKNSKGEKAGE  
 KQQNGDLKDGKNAKDKDHSNTGNESSKTDGTTKRSRSHGSPAPSTSSTSRITLPGDYG

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul



<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_001159956.1</a> , <a href="#">NP_001153428.1</a>
<b>RefSeq Size:</b>	4118 bp
<b>RefSeq ORF:</b>	1854 bp
<b>Locus ID:</b>	18575
<b>Cytogenetics:</b>	6 27.65 cM
<b>Gene Summary:</b>	Calmodulin-dependent cyclic nucleotide phosphodiesterase with a dual-specificity for cAMP and cGMP, which are key regulators of many important physiological processes (PubMed:8810348). Exhibits high affinity for both cAMP and cGMP (By similarity). Modulates the amplitude and duration of the cAMP signal in sensory cilia in response to odorant stimulation, hence contributing to the generation of action potentials. Regulates smooth muscle cell proliferation. Regulates the stability of growth factor receptors, including PDGFRB (Probable).[UniProtKB/Swiss-Prot Function]