

## Product datasheet for **MG219166**

### **Pde7a (NM\_008802) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde7a (NM_008802) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pde7a
Synonyms:	AU015378; AW047537
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG219166 representing NM\_008802  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGAATCACTTTGATCTGGTGTCTGGCTTTGGTTCTGATCAAGTGATCACCTCTAAGAGACGTGGAG  
 CTATTTCCCTATGACAGTTCTGATCAGACTGCGTTATATATTCGTATGCTAGGAGATGTCCGCGTGAGGAG  
 CCGAGCAGGATTTGAAACAGAAAGAAGAGGTTCCCATCCGTACATTGACTTCCGTATTTTCACTCTCAA  
 TCTGACATTGAAGCATCAGTCTCCGCCAGGAACATCAGAAGGTTACTAAGTTTCCAGCGATATCTCAGAT  
 CCTCACGAGTTTTTCGGGGTGCCACAGTTTGTAGTTCTCTAGACATTTTAGATGAGGATTACAATGGACA  
 AGCCAAGTGTATGCTGGAAAAAGTTGAAATTGGAATTTTGATATCTTTCTGTTTATAGACTAACAAT  
 GGAATAGTCTAGTAAGCCTAACCTTTTATTTAGTCTTCATGGATTGATTGAGTACTTCCATTTAG  
 ATATGGTGAAGTCCGTCGGTTTTAGTTATGATTCAAGAAGATTACCACAGTCAAAATCCTTACCACAA  
 TGCAGTCCATGCTGCAGACGTTACTCAGCCATGCACTGTTACTTAAAGGAACCTAAGCTTGCCAGTTCT  
 GCACTCCTTGGGATATCTTGTGAGTTAATTGCAGCCGCCACTCACGATCTGGATCACCCAGGTGTTA  
 ATCAGCCGTTTCTTATTAACCAACCATTATCTAGCACTTTATACAAGAAATTCCTCAGTCTGGAGAA  
 TCACCACTGGAGATCTGCAGTGGCTTGTAAAGAGAATCTGGTTTGTCTCACACTTGCCATTGGAAAGC  
 AGGCAAGAGATGGAGGCTCAGATAGGTGCTTTGATATTAGCCACGGATATCAGTCGCCAGAACGAGTACC  
 TGTCAATGTTTAGATCTCACTTGGATAAAGGTGACTTACACCTTGACGATGGCAGACATAGGCATTTGGT  
 TCTACAGATGGCCTTGAATGTGCTGATTTTGAACCCATGTCGGAAGTGGAAATTAAGCAAGCAGTGG  
 AGTGAAGAAAGTAAACGGAGGAATCTTCCACCAAGGAGATATAGAAAAAGTACCATTTGGGTGTGAGTC  
 CACTTTGTGATCGTCAGACTGAGTCTATTGCCAACATCCAGATTGGTTTTATGACTTACCTAGTGGAGCC  
 TTTATTTACAGAGTGGGCCAGTTTTTCAGACACACGGCTGTACAGACGATGCTTGGACATGTGGGGCTG  
 AATAAAGCCAGCTGGAAGGGACTGCAGAGACAACAGCCAGCAGCGAGGATGCCAATGCTGCATTTGAGT  
 TGAAGTACAGTTACTAAGTCAAGAAAATCGGTTATCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG219166 representing NM\_008802  
 Red=Cloning site Green=Tags(s)

MGITLIWCLALVLIKWITSKRRAISYDSSDQTALYIRMLGDVVRVSRAGFETERRGSHPYIDFRIFHSQ  
 SDIEASVSARNIRRLSFQRYLRSSRVFRGATVCSLDILDEDYNGQAKMLEKVGNNWFDIFLFDRLTN  
 GNSLVSLTFHLFSLHGLIEYFHLDVMKLRFLVMIQEDYHSQNPYHNAVHAADVTQAMHCYLKEPKLASS  
 VTPWDILLSLIAATHDLDPVGNQPFLLIKTNHYLATLYKNSSVLENHHWRSVAVGLLRESGLFSLHPLES  
 RQEMEAQIGALILATDISRQNEYLFLFRSHLDKGDHLDDGRHRHLVLQMLKCADICNPCRNLWELSKQW  
 SEKVTEEFFHQDIEKKYHLGVSPLCDRQTESIANIQIGFMTYLVEPLFTEWARFSDTRLSTQMLGHVGL  
 NKASWKGLQRQQPSSDANAFAFELNSQLLTQENRLS

**TRTRPLE** - GFP Tag - V

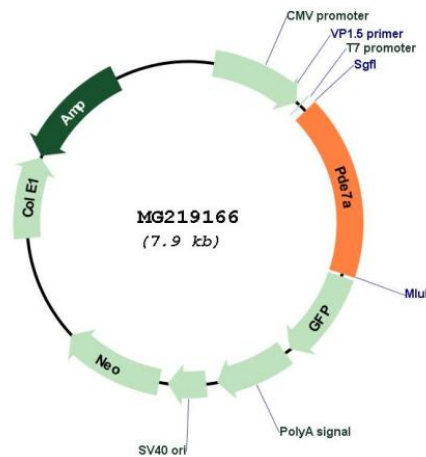
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_008802

ORF Size: 1368 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: 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>	<u><a href="#">NM_008802.3</a></u> , <u><a href="#">NP_032828.2</a></u>
<b>RefSeq Size:</b>	3179 bp
<b>RefSeq ORF:</b>	1371 bp
<b>Locus ID:</b>	18583
<b>UniProt ID:</b>	<u><a href="#">P70453</a></u>
<b>Cytogenetics:</b>	3 5.36 cM
<b>Gene Summary:</b>	Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes. May have a role in muscle signal transduction (By similarity). [UniProtKB/Swiss-Prot Function]