OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR219166

Pde7a (NM_008802) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde7a (NM_008802) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde7a
Synonyms:	AU015378; AW047537
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR219166 representing NM_008802
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAATCACTTTGATCTGGTGTCTGGCTTTGGTTCTGATCAAGTGGATCACCTCTAAGAGACGTGGAG
CTATTTCCTATGACAGTTCTGATCAGACTGCGTTATATATTCGTATGCTAGGAGATGTCCGCGTGAGGAG
CCGAGCAGGATTTGAAACAGAAAGAAGAGGTTCCCATCCGTACATTGACTTCCGTATTTTTCACTCTCAA
TCTGACATTGAAGCATCAGTCTCCGCCAGGAACATCAGAAGGTTACTAAGTTTCCAGCGATATCTCAGAT
CCTCACGAGTTTTTCGGGGTGCCACAGTTTGTAGTTCTCTAGACATTTTAGATGAGGATTACAATGGACA
AGCCAAGTGTATGCTGGAAAAAGTTGGAAATTGGAATTTTGATATCTTTCTGTTTGATAGACTAACAAAT
GGAAATAGTCTAGTAAGCCTAACCTTTCATTTATTTAGTCTTCATGGATTGATTGAGTACTTCCATTTAG
ATATGGTGAAACTCCGTCGGTTTTTAGTTATGATTCAAGAAGATTACCACAGTCAAAATCCTTACCACAA
TGCAGTCCATGCTGCAGACGTTACTCAGGCCATGCACTGTTACTTAAAGGAACCTAAGCTTGCCAGTTCT
GTCACTCCTTGGGATATCTTGCTGAGTTTAATTGCAGCCGCCACTCACGATCTGGATCACCCAGGTGTTA
ATCAGCCGTTTCTTATTAAAACCAACCATTATCTAGCAACTTTATACAAGAATTCCTCAGTCCTGGAGAA
TCACCACTGGAGATCTGCAGTGGGCTTGTTAAGAGAATCTGGTTTGTTCTCACACTTGCCATTGGAAAGC
AGGCAAGAGATGGAGGCTCAGATAGGTGCTTTGATATTAGCCACGGATATCAGTCGCCAGAACGAGTACC
TGTCATTGTTTAGATCTCACTTGGATAAAGGTGACTTACACCTTGACGATGGCAGACATAGGCATTTGGT
TCTACAGATGGCCTTGAAATGTGCTGATATTTGTAACCCATGTCGGAACTGGGAATTAAGCAAGCAGTGG
AGTGAAAAAGTAACGGAGGAATTCTTCCACCAAGGAGATATAGAAAAAAAGTACCATTTGGGTGTGAGTC
CACTTTGTGATCGTCAGACTGAGTCTATTGCCAACATCCAGATTGGTTTTATGACTTACCTAGTGGAGCC
TTTATTTACAGAGTGGGCCAGGTTTTCAGACACACGGCTGTCACAGACGATGCTTGGACATGTGGGGCTG
AATAAAGCCAGCTGGAAGGGACTGCAGAGACAACAGCCCAGCAGCGAGGATGCCAATGCTGCATTTGAGT
TGAACTCACAGTTACTAACTCAGGAAAATCGGTTATCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

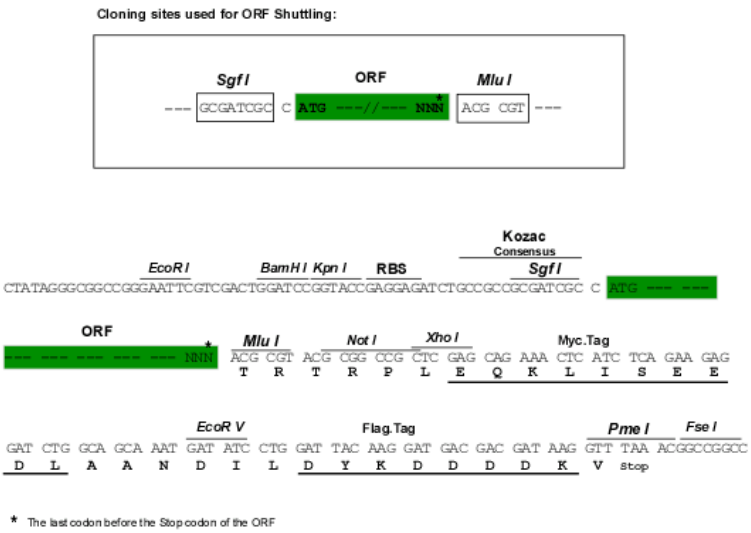
>MR219166 representing NM_008802
Red=Cloning site Green=Tags(s)

MGITLIWCLALVLIKWITSKRRGAISYDSSDQTALYIRMLGDVRVRSRAGFETERRGSHPYIDFRIFHSQ
SDIEASVSARNIRRLLSFQRYLRSSRVFRGATVCSSLDILDEDYNGQAKCMLEKVGNWNFDIFLFDRLTN
GNSLVSLTFHLFSLHGLIEYFHLDMVKLRRFLVMIQEDYHSQNPYHNAVHAADVTQAMHCYLKEPKLASS
VTPWDILLSLIAAATHDLDHPGVNQPFLIKTNHYLATLYKNSSVLENHHWRSAVGLLRESGLFSHLPLES
RQEMEAQIGALILATDISRQNEYLSLFRSHLDKGDLHLDDGRHRHLVLQMALKCADICNPCRNWELSKQW
SEKVTEEFFHQGDIEKKYHLGVSPLCDRQTESIANIQIGFMTYLVEPLFTEWARFSDTRLSQTMLGHVGL
NKASWKGLQRQQPSSEDANAAFELNSQLLTQENRLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

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:
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.

RefSeq: NM_008802.3, NP_032828.2

RefSeq Size: 3179 bp

RefSeq ORF: 1371 bp

Locus ID: 18583

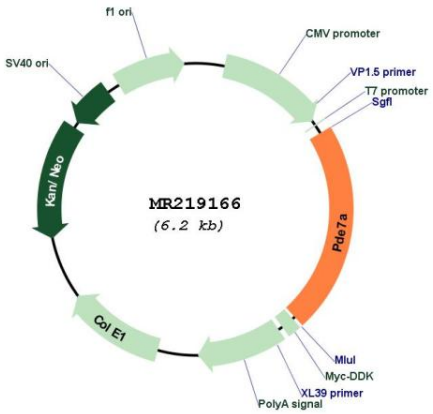
UniProt ID: P70453

Cytogenetics: 3 5.36 cM

MW: 52.9 kDa

Gene Summary: 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]

Product images:



Circular map for MR219166