

Product datasheet for **MC216639**

Pde7a (NM_001122759) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde7a (NM_001122759) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pde7a
Synonyms:	AU015378; AW047537
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216639 representing NM_001122759
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGTATGCTACCAGCTGCCGGTGCTGCCCTGGACAGGCCGGTCCCCAGCAGCTCCTCAGCCGCC
 GAGGAGCCATCAGCTTCCAGCTCCAGCTCCGCGCTCTTCGGCTGCCCGCATCCCCGGCAGCTCTCGCAGAG
 ACGTGGAGCTATTTCTATGACAGTTCTGATCAGACTGCGTTATATATTTCGTATGCTAGGAGATGTCCGC
 GTGAGGAGCCGAGCAGGATTTGAAACAGAAAGAAGAGGTTCCCATCCGTACATTGACTTCCGTATTTTTC
 ACTCTCAATCTGACATTGAAGCATCAGTCTCCGCCAGGAACATCAGAAGGTTACTAAGTTCCAGCGATA
 TCTCAGATCCTCACGAGTTTTTCGGGGTGCCACAGTTTGTAGTTCTCTAGACATTTTAGATGAGGATTAC
 AATGGACAAGCCAAGTGTATGCTGGAAAAAGTTGGAATTGGAATTTTGATATCTTTCTGTTTGATAGAC
 TAACAAATGGAATAGTCTAGTAAGCCTAACCTTTCATTTATTTAGTCTTCATGGATTGATTGAGTACTT
 CCATTTAGATATGGTAAACTCCGTCGGTTTTTAGTTATGATTCAAGAAGATTACCACAGTCAAAATCCT
 TACCACAATGCAGTCCATGCTGCAGACGTTACTCAGGCCATGCACTGTTACTTAAAGGAACCTAAGCTTG
 CCAATTCTGTCACTCCTTGGGATATCTTCTGAGTTAATTGCAGCCGCCACTCACGATCTGGATCACCC
 AGGTGTTAATCAGCCGTTTCTTATTAACCAACCATTATCTAGCAACTTATACAAGAATTCCTCAGTC
 CTGGAGAATCACCAGTGGAGATCTGCAGTGGGCTTGTTAAGAGAACTCGGTTTGTCTCACACTTGCAT
 TGGAAAGCAGGCAAGAGATGGAGGCTCAGATAGGTGCTTTGATATTAGCCACGGATATCAGTCGCCAGAA
 CGAGTACCTGTCAATTGTTAGATCTCACTTGGATAAAGGTGACTTACACCTTGACGATGGCAGACATAGG
 CATTGGTTCTACAGATGGCCTTGAATGTGCTGATTTTGTAAACCATGTCGGAACCTGGGAATTAAGCA
 AGCAGTGGAGTGAAAAAGTAACGGAGGAATCTCCACCAAGGAGATATAGAAAAAAGTACCATTTGGG
 TGTGAGTCCACTTTGTGATCGTCAGACTGAGTCTATTGCCAACATCCAGATTGGTTTTATGACTTACCTA
 GTGGAGCCTTTATTTACAGAGTGGGCCAGGTTTTCCAGACACAGGCTGTACAGACGATGCTTGGACATG
 TGGGGCTGAATAAAGCCAGCTGGAAGGGACTGCAGAGACAACAGCCAGCAGCGAGGATGCCAATGCTGC
 ATTTGAGTTGAACACAGTTACTAACTCAGGAAAATCGGTTATCA**TAA**

ACGGTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001122759

Insert Size: 1449 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).

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_001122759.2](#), [NP_001116231.1](#)

RefSeq Size: 6298 bp

RefSeq ORF: 1449 bp

Locus ID: 18583

UniProt ID: [P70453](#)

Cytogenetics: 3 5.36 cM

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]
Transcript Variant: This variant (2) contains an alternate 5' terminal exon, lacks a portion of the 5' coding region and initiates translation at an alternate start codon compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is longer than 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.