

Product datasheet for **MG207723**

Pde7a (BC062909) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde7a (BC062909) 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)



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ORF Nucleotide Sequence:

>MG207723 representing BC062909
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGTATGCTACCAGCTGCCGGTGTGCCCTGGACAGGCCGGTCCCCAGCACGTCCTCAGCCGCC
 GAGGAGCCATCAGCTTCCAGCTCCAGCTCCGCGCTCTTCGGCTGCCCGCATCCCCGCGAGCTCTCGCAGAG
 ACGTGGAGCTATTTCTATGACAGTTCTGATCAGACTGCGTTATATATTTCGTATGCTAGGAGATGTCGCG
 GTGAGGAGCCGAGCAGGATTTGAAACAGAAAGAAGAGGTTCCCATCCGTACATTGACTTCCGTATTTTTTC
 ACTCTCAATCTGACATTGAAGCATCAGTCTCCGCCAGGAACATCAGAAGGTTACTAAGTTCCAGCGATA
 TCTCAGATCCTCACGAGTTTTTCGGGGTGCCACAGTTTGTAGTTCTCTAGACATTTAGATGAGGATTAC
 AATGGACAAGCCAAGTGTATGCTGGAAAAAGTTGGAATTTGGAATTTTGATATCTTTCTGTTTGATAGAC
 TAACAAATGGAATAGTCTAGTAAGCCTAACCTTTCATTTATTTAGTCTTCATGGATTGATTGAGTACTT
 CCATTTAGATATGGTAAACTCCGTCGGTTTTTAGTTATGATTCAAGAAGATTACCACAGTCAAAATCCT
 TACCACAATGCAGTCCATGCTGCAGACGTTACTCAGGCCATGCACTGTTACTTAAAGGAACCTAAGCTTG
 CCAATTCTGCTACTCCTTGGGATATCTTCTGAGTTAATTGCAGCCGCCACTCACGATCTGGATCACCC
 AGGTGTTAATCAGCCGTTTCTTATTAACCAACCATTATCTAGCAACTTATACAAGAATTCCTCAGTC
 CTGGAGAATCACCAGTGGAGATCTGCAGTGGGCTTGTTAAGAGAAATCTGGTTTGTCTCACACTTGCAT
 TGGAAAGCAGGCAAGAGATGGAGGCTCAGATAGGTGCTTTGATATTAGCCACGGATATCAGTCGCCAGAA
 CGAGTACCTGTCATTGTTAGATCTCACTTGGATAAAGGTGACTTACACCTTGACGATGGCGGACATAGG
 CATTGGTTCTACAGATGGCCTTGAATGTGCTGATATTTGTAACCCATGTCGAACTGGGAATTAAGCA
 AGCAGTGGAGTGAAAAAGTAACGGAGGAATCTCCACCAAGGAGATATAGAAAAAAGTACCATTTGGG
 TGTGAGTCCACTTTGTGATCGTCAGACTGAGTCTATTGCCAACATCCAGATTGGTTTTATGACTTACCTA
 GTGGAGCCTTTATTTACAGAGTGGGCCAGGTTTTTCAGACACACGCTGTACAGACGATGCTTGGACATG
 TGGGGCTGAATAAAGCCAGCTGGAAGGGACTGCAGAGACAACAGCCAGCAGCGAGGATGCCAATGCTGC
 ATTTGAGTTGAAGTACAGTTACTAACTCAGGAAAATCGGTTATCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207723 representing BC062909
 Red=Cloning site Green=Tags(s)

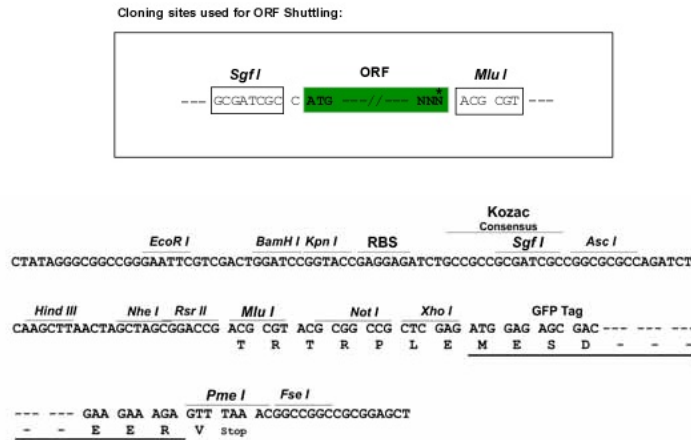
MEVCYQLPVLPLDRPVPQHVLSRRGAI SFSSSSALFGCPHPRQLSQRGAI SYDSSDQTALYIRMLGDVR
 VRSRAGFETERRGSHPYIDFRIFHSQSDIEASVSARNIRRLSFQRYLRSSRVFRGATVCSLIDDEDY
 NGQAKCMLEKVGNNWFDIFLFDRLTNGNSLVSLTFHLFSLHGLIEYFHLDMVKLRRFLVMIQEDYHSQNP
 YHNAVHAADVQAMHCYLKEPKLASSVTPWDILLSLIAAATHLDHPGVNQPFILKTNHYLATLYKNSSV
 LENHHWRSVAVGLLRESGLFSHLPLESRQEMEAQIGALILATDISRQNEYLSLFRSHLDKGDHLDDGGHR
 HLVLQALKCADICNPCRNWELSKQWSEKVTVEFFHQGDIEKKYHLGVSPLCDRQTESI ANIQIGFMTYL
 VEPLFTEWARFSDTRLSQTMLGHVGLNKASWKGLQRQPPSSSEDANA AFELNSQLLTQENRLS

TRTRPLE - GFP Tag - V

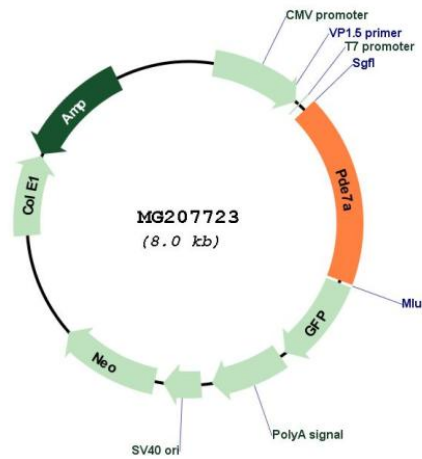
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC062909

ORF Size: 1448 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: [BC062909](#), [AAH62909](#)

RefSeq Size: 3384 bp

RefSeq ORF: 1448 bp

Locus ID: 18583

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]