

Product datasheet for **MG218917**

Pde7b (NM_013875) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde7b (NM_013875) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pde7b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218917 representing NM_013875 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTTGTTTAAATGGTTGAGAGGTGTGGCGAAGTCTTGTGTTGAGAGCCCTGAACAGAGTGTCAAATGTG
TTTGCATGCTAGGAGATGTACGACTAAGGGGTCTAGACGGGGTTCCTGCCGAACGCCGTGGCTCCTACCC
ATTCATTGACTTCCGTCTACTTAACAATACAACACACTCAGGGGAAATTTGGCACCAGAAAAAGGTGAAA
CGACTGTTAAGTTTCAAAGATACTTCCATGCATCTAGGCTTCTCCGGGGGATTATACCGCAGGCCCTC
TCCACCTGCTGGATGAAGACTACCTTGGACAAGCAAGGCACATGCTCTCAAAGTTGGAACGTGGGACTT
TGACATTTTCTTGTGATCGCTTGACAAATGGGAACAGCTCTGGTAACCTCTGTTGTGTCACTCTTCAAC
TCCCATGGGCTCATCCACCATTTCAGCTCGATATGGTGACCTTGACAGGTTTCTGTTATGGTTCAAG
AAGATTACCACGGTCACAACCCATACCACAATGCTGTTACGCAGCCGACGTCAACCCAGGCCATGCACTG
TTACCTGAAGGAGCCAAAGTTGGCAAGCTTCTCACACCTCTGGACATCATGCTTGGACTACTGGCTGCA
GCAGCTCATGACGTGGACCACCCAGGGTCAACCAGCCATTTTGTGATCAAACTAACCACCATCTTGCCA
ACCTGTATCAGAATATGTCTGTACTGGAGAATCACCCTGGCGATCTACAATTGGCATGCTTCGAGAATC
ACGGCTCCTGGCTCACTTGCCAAAGGAAATGACACAGGATATCGAACAGCAGCTGGGCTCCCTCATCTTG
GCCACGGATATCAACAGACAGAATGAGTTTCTGACCCGCTTAAAGCTCACCTCCACAATAAAGATTGGA
GACTGGAGAATGTACAGGACAGACACTTATGCTTCAGATCGCCTTGAAGTGTGCTGACATTTGCAATCC
TTGTCTGATCTGGGAGATGAGCAAGCAGTGGAGTGAAGGGTCTGTGAGGAATTCTACAGACAAGGTGAC
CTTGAACAGAAGTTTGAAGTGAAGTCAAGTCTCTTTGTAATCAACAGAAAGATTCAATCCCTAGCATAC
AAATTGGTTTCATGACTTACATCGTGGAGCCGCTGTTCCGGGAGTGGGCCGGTTTACTGGGAACAGCAC
CCTGTCGAGAACATGCTAAGCCATCTCGGCACAACAAAGCCAGTGAAGAGCCTGCTGTCCAATCAG
CACAGACGACGGGCGAGCGCCAGGACCTGGCGGGCCCCGCACCTGAGACCCTGGAGCAGACAGAAGGTG
CCACGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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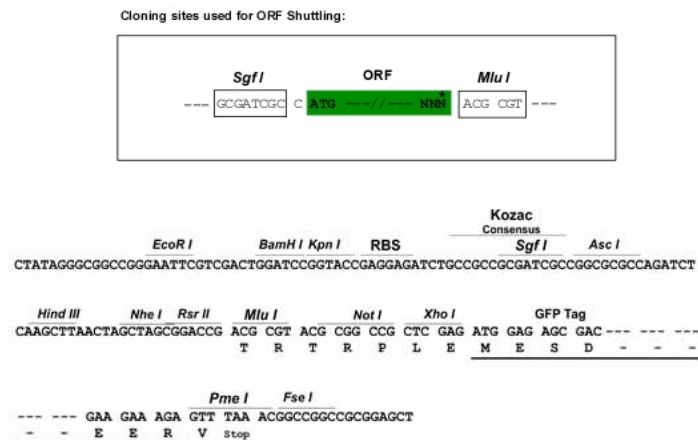
Protein Sequence: >MG218917 representing NM_013875
 Red=Cloning site Green=Tags(s)

MSCLMVERCGEVLFESEQSVKVCMLGDVRLRGQTGVPAAERRGSYPFIDFRLLNNTTHSGEIGTKKKVK
 RLLSFQRYFHASRLRLGIIPQAPLHLLDELYLGQARHMLSKVGTWDFDIFLFDRLTNGNSLVTLCHLFN
 SHGLIHFKLDMVTLHRFLVMVQEDYHGHNYPYHNAVHAADVTQAMHCYLKEPKLASFLTPLDIMLGLLAA
 AAHDVDHPGVNQPFLLIKTNHHLANLYQNMVLENHHWRSTIGMLRESRLLAHLPKEMTQDIEQQLGSLIL
 ATDINRQNEFLTRLKAHLHNKDLRLENVQDRHFMLQIALKCADICNPCIWEMSKQWSERVICEEFYRQGD
 LEQKFELEISPLCNQQKDSIPSIQIGFTYIIVEPLFREWARFTGNSTLSENMLSHLAHNKAQWKSLLSNQ
 HRRRGSGQDLGAPETLEQTEGATP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013875

ORF Size: 1338 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_013875.6](#)

RefSeq Size: 4127 bp

RefSeq ORF: 1341 bp

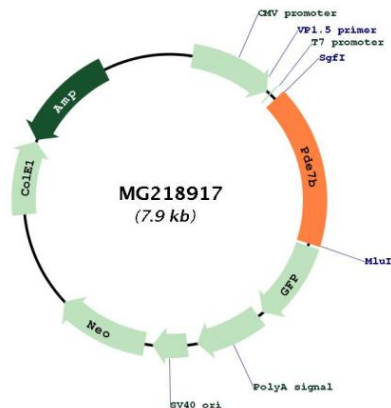
Locus ID: 29863

UniProt ID: [Q9QXQ1](#)

Cytogenetics: 10 A3

Gene Summary: Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes. May be involved in the control of cAMP-mediated neural activity and cAMP metabolism in the brain.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218917