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 MR218917

Pde7b (NM_013875) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde7b (NM_013875) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde7b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR218917 representing NM_013875
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTTGTTTAATGGTTGAGAGGTGTGGCGAAGTCTTGTTTGAGAGCCCTGAACAGAGTGTCAAATGTG
TTTGCATGCTAGGAGATGTACGACTAAGGGGTCAGACGGGGGTTCCTGCCGAACGCCGTGGCTCCTACCC
ATTCATTGACTTCCGTCTACTTAACAATACAACACACTCAGGGGAAATTGGCACCAAGAAAAAGGTGAAA
CGACTGTTAAGTTTCCAAAGATACTTCCATGCATCTAGGCTTCTCCGGGGGATTATACCGCAGGCCCCTC
TCCACCTGCTGGATGAAGACTACCTTGGACAAGCAAGGCACATGCTCTCCAAAGTTGGAACGTGGGACTT
TGACATTTTCTTGTTTGATCGCTTGACAAATGGGAACAGTCTGGTAACTCTGTTGTGTCACCTCTTCAAC
TCCCATGGGCTCATCCACCATTTCAAGCTCGATATGGTGACCTTGCACAGGTTTCTGGTTATGGTTCAGG
AAGATTACCACGGTCACAACCCATACCACAATGCTGTTCACGCAGCCGACGTCACCCAGGCCATGCACTG
TTACCTGAAGGAGCCAAAGTTGGCAAGCTTCCTCACACCTCTGGACATCATGCTTGGACTACTGGCTGCA
GCAGCTCATGACGTGGACCACCCAGGGGTCAACCAGCCATTTTTGATCAAAACTAACCACCATCTTGCCA
ACCTGTATCAGAATATGTCTGTACTGGAGAATCACCACTGGCGATCTACAATTGGCATGCTTCGAGAATC
ACGGCTCCTGGCTCACTTGCCAAAGGAAATGACACAGGATATCGAACAGCAGCTGGGCTCCCTCATCTTG
GCCACGGATATCAACAGACAGAATGAGTTTCTGACCCGCTTAAAAGCTCACCTCCACAATAAAGATTTGA
GACTGGAGAATGTACAGGACAGACACTTTATGCTTCAGATCGCCTTGAAGTGTGCTGACATTTGCAATCC
TTGTCGTATCTGGGAGATGAGCAAGCAGTGGAGTGAAAGGGTCTGTGAGGAATTCTACAGACAAGGTGAC
CTTGAACAGAAGTTTGAACTGGAAATCAGTCCTCTTTGTAATCAACAGAAAGATTCAATCCCTAGCATAC
AAATTGGTTTCATGACTTACATCGTGGAGCCGCTGTTCCGGGAGTGGGCCCGGTTTACTGGGAACAGCAC
CCTGTCGGAGAACATGCTAAGCCATCTCGCGCACAACAAAGCCCAGTGGAAGAGCCTGCTGTCCAATCAG
CACAGACGCAGGGGCAGCGGCCAGGACCTGGCGGGCCCCGCACCTGAGACCCTGGAGCAGACAGAAGGTG
CCACGCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218917 representing NM_013875
Red=Cloning site Green=Tags(s)

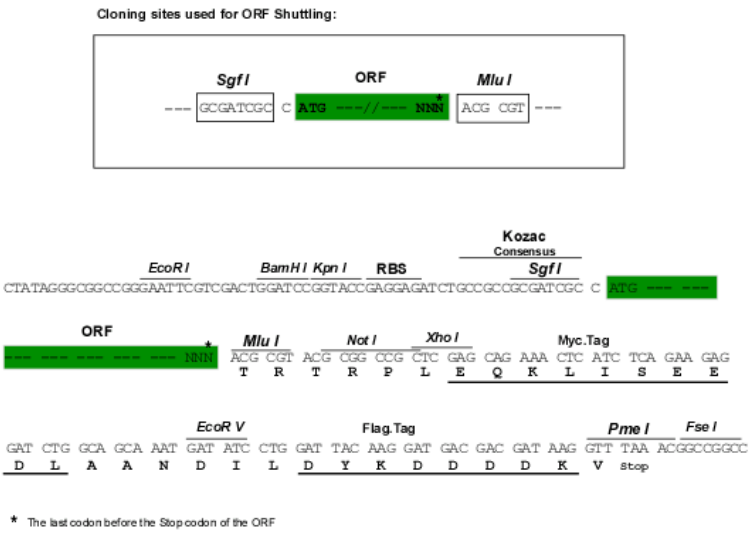
MSCLMVERCGEVLFESPEQSVKCVCMLGDVRLRGQTGVPAERRGSYPFIDFRLLNNTTHSGEIGTKKKVK
RLLSFQRYFHASRLLRGIIPQAPLHLLDEDYLGQARHMLSKVGTWDFDIFLFDRLTNGNSLVTLLCHLFN
SHGLIHHFKLDMVTLHRFLVMVQEDYHGHNPYHNAVHAADVTQAMHCYLKEPKLASFLTPLDIMLGLLAA
AAHDVDHPGVNQPFLIKTNHHLANLYQNMSVLENHHWRSTIGMLRESRLLAHLPKEMTQDIEQQLGSLIL
ATDINRQNEFLTRLKAHLHNKDLRLENVQDRHFMLQIALKCADICNPCRIWEMSKQWSERVCEEFYRQGD
LEQKFELEISPLCNQQKDSIPSIQIGFMTYIVEPLFREWARFTGNSTLSENMLSHLAHNKAQWKSLLSNQ
HRRRGSGQDLAGPAPETLEQTEGATP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9034_d08.zip

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

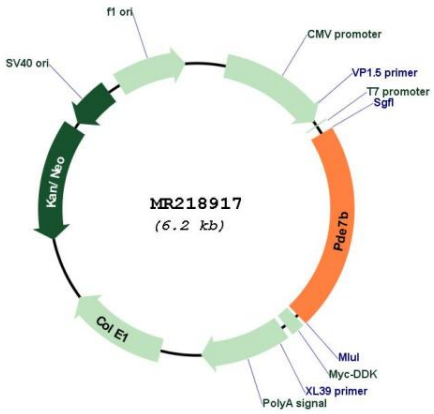
UniProt ID: Q9QXQ1

Cytogenetics: 10 A3

MW: 51.8 kDa

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 MR218917