

Product datasheet for **RG210416**

PDE7B (NM_018945) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE7B (NM_018945) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDE7B
Synonyms:	bA472E5.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG210416 representing NM_018945
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCCTTGTTAATGTTGAGAGGTGTGGCGAAATCTTGTTTGAACCCCGATCAGAATGCCAAATGTG
 TTTCATGCTGGGAGATATACGACTAAGGGGTCAGACGGGGTTCGTGCTGAACGCCGTGGCTCCTACCC
 ATTCATTGACTTCCGCCTACTTAACAGTACAACATACTCAGGGGAGATTGGCACCAAGAAAAAGGTGAAA
 AGACTATTAAGCTTTCAAAGATACTTCCATGCATCAAGGCTGCTTCGTGGAATTATACCACAAGCCCTC
 TGCACCTGCTGGATGAAGACTACCTTGGACAAGCAAGGCATATGCTCTCCAAAGTGGGAATGTGGGATTT
 TGACATTTTCTTGTTGATCGTTGACAAATGGAACAGCCTGGTAACACTGTTGTGCCACCTCTTCAAT
 ACCCATGGACTCATTACCATTTCAGTTAGATATGGTGACCTTACACCGATTTTATGTCATGGTTCAAG
 AAGATTACCACAGCCAAAACCCGTATCACAATGCTGTTACGCAGCCGACGTACCCAGGCCATGCACTG
 CTACCTGAAAGAGCCAAAGCTTGCCAGCTTCTCACGCCTCTGGACATCATGCTTGGACTGCTGGCTGCA
 GCAGCACAGATGTGGACCACCCAGGGGTGAACCAGCCATTTTGTATAAAACTAACACCATCTTGCAA
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 AAGGCTTCTTGCTCATTTGCCAAAGGAAATGACACAGGATATTGAACAGCAGCTGGGCTCCTTGATCTTG
 GCAACAGACATCAACAGGCAGAAATGAATTTTGAACAGATTGAAAGCTCACCTCCACAATAAAGACTTAA
 GACTGGAGGATGCACAGGACAGGCATTTATGCTTCAGATCGCCTTGAAGTGTGCTGACATTTGCAATCC
 TTGTAGAATCTGGGAGATGAGCAAGCAGTGGAGTGAAAGGGTCTGTGAAGAATTCTACAGGCAAGGTGAA
 CTTGAACAGAAATTTGAAGTGGAAATCAGTCCTCTTTGTAATCAACAGAAAGATTCCATCCCTAGTATAC
 AAATTGGTTTTCATGAGCTACATCGTGGAGCCGCTCTTCCGGGAATGGGCCATTTACGGGTAACAGCAC
 CCTGTCCGAGAACATGCTGGGCCACCTCGCACACAACAAGGCCAGTGGGAAGAGCCTGTTGCCACAGGCAG
 CACAGAAGCAGGGGCAGCAGTGGCAGCGGCCTGACCACGACCACGCAGGCCAAGGGACTGAGAGCGAGG
 AGCAGGAAGGCGACAGCCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210416 representing NM_018945
 Red=Cloning site Green=Tags(s)

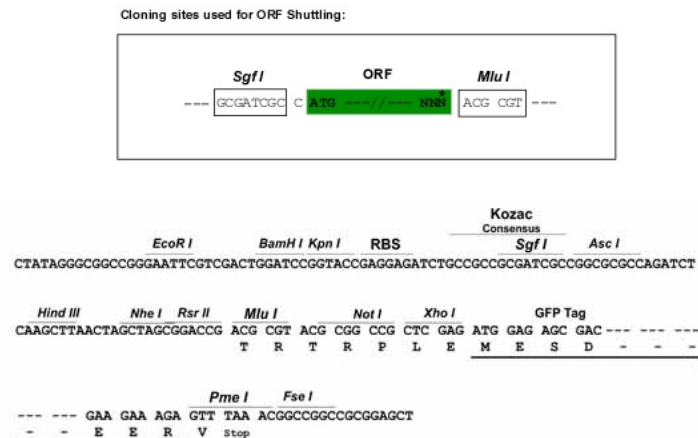
MSCLMVERCGEILFENPDQNAKVCMLGDIRLRGQTGVRAERRGSYPFIDFRLLNSTTYSGEIGTKKKVK
 RLLSFQRYFHASRLRLGIIPQAPLHLLDEDYLGQARHMLSKVGMWDFDIFLFDRLTNGNSLVTLCHLNFN
 THGLIHHFKLDMVTLHRFLVMVQEDYHSQNPYHNAVHAADVTQAMHCYLKEPKLASFLTPLDIMLGLLAA
 AAHDVDHPGVNPFLIKTNHHLANLYQNMVLENHHWRSTIGMLRESRLLAHLPKEMTQDIEQQLGSLIL
 ATDINRQNEFLTRLKAHLHNKDLRLDAQDRHFMLQIALKCADICNPCIWEMSKQWSERVCEEFYRQGE
 LEQKFELEISPLCNQKDSIPSIQIGFMSYIVEPLFREWAHFTGNSTLSENMLGHLAHNKAQWKSLLPRQ
 HRSRGSSGSGPDHDHAGQGTESEEGDSP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_018945

ORF Size: 1350 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_018945.4](#)

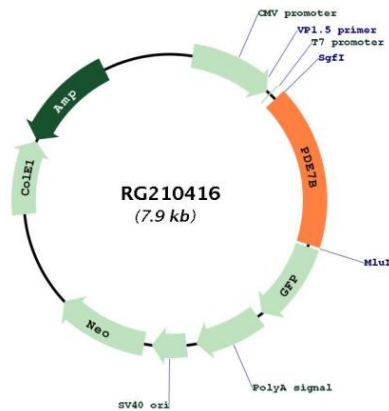
RefSeq Size: 5387 bp

RefSeq ORF: 1353 bp

Locus ID: 27115

UniProt ID:	<u>Q9NP56</u>
Cytogenetics:	6q23.3
Domains:	PDEase, HDc
Protein Families:	Druggable Genome
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism
Gene Summary:	The 3',5'-cyclic nucleotides cAMP and cGMP function as second messengers in a wide variety of signal transduction pathways. 3',5'-cyclic nucleotide phosphodiesterases (PDEs) catalyze the hydrolysis of cAMP and cGMP to the corresponding 5'-monophosphates and provide a mechanism to downregulate cAMP and cGMP signaling. This gene encodes a cAMP-specific phosphodiesterase, a member of the cyclic nucleotide phosphodiesterase family.[provided by RefSeq, Apr 2009]

Product images:



Circular map for RG210416