

## Product datasheet for **RG217760**

### **PDE8B (NM\_003719) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE8B (NM_003719) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDE8B
Synonyms:	ADSD; PPNAD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG217760 representing NM\_003719  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCTGCGCCCCAGCATCCATGTCTCGCAGAGCGGCGTGATCTACTGCCGGGACTCGGACGAGTCCA  
 GCTCGCCCCGCCAGACCACCAGCGTGTGCGAGGGCCCGGCGGCACCCCTGCCCGGCTCTTCGTCCAGAC  
 CGACGCCGCCGACGCCATCCCCCGAGCGCGCGTCCGGACCCCCAGCGTAGCCCGGTCCGCAGGGCC  
 CGCACCGAGCTGGGCAGCGGTAGCAGCGCGGGTCCGCAGCCCCCGCGGACCACCAGCAGGGGCCGGA  
 GGCGCCACTGCTGCAGCAGCGCCGAGGCGGAGACTCAGACCTGCTACACCAGCGTGAAGCAGGTGTCTTC  
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 CTACCACTCTTCAATGCCTACCACAATCCACCATGCTGCCGACGTCCTGCACGCCACCCTTCTTT  
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**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

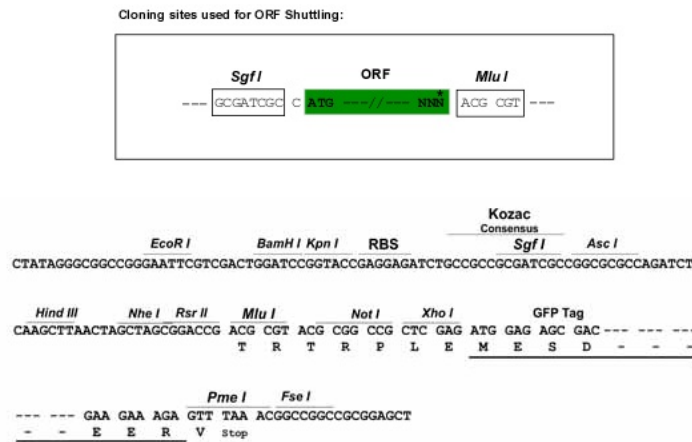
Protein Sequence: >RG217760 representing NM\_003719  
 Red=Cloning site Green=Tags(s)

MGCAPSIHVSQSGVIYCRDSESSPRQTTSVSQGPAAPLPGLFVQTDAAAIPPSRASGPPSVAVRRA  
 RTELGGSSAGSAAPAATTSRGRRRHCCSSAEAEQTQCYTSVKQVSSAEVRIGPMRLTQDPIQVLLIFAK  
 EDSQSDGFWWACDRAGYRCNIARTPESALECFLDKHHEIIVIDHRQTQNFDAEAVCRSIRATNPSEHTVI  
 LAVVSRVSDHHEEASVLP LLHAGFNRRFMENSSIIACYNELIQIEHGEVRSQFKLRACNSVFTALDHCHE  
 AIEITSDDHVIQYVNPFAFERMMGYHKGELLGKELADLPKSDKNRADLLDTINTCIKKGKEWQGVYYARRK  
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 KSISRRGSDAPSLQNRYPSPMARIHSMTEAPITKVINIINAAQENSPVTVAEALDRVLEILRRTTELYSP  
 QLGTKDEDPHSDLVGGMLTDGLRRLSGNEYVFTKNVHQSHSLAMPITINDVPPCISQLLDNEESWDFN  
 IFELEAITHKRPLVYLGLKVF SRFGVCF LNCSETTLRAWFQVIEANYHSSNAYHNSTHAADV LHATAFF  
 LGKERVKGLDQLDEVAALIAATVHDVDHPGRTNFFLCNAGSELAVLYNDTAVLESHHTALAFQLTKVDT  
 KCNIFKNIDRNHYRTL RQAIIDMVLATEMTKHFHVNFVNSINKPMAAEIEGSDCECNPAGKNFPENQI  
 LIKRMMIKADV ANPCRPLDLCIEWAGRISEEYFAQTDEEKRQGLPVVMPVDFDRNTCSIPKQISFIDYF  
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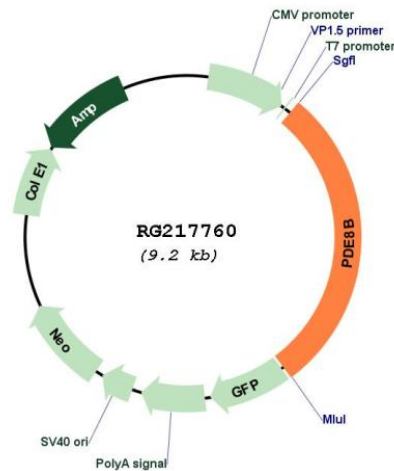
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_003719

ORF Size: 2655 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: [NM\\_003719.2](#), [NP\\_003710.1](#)

RefSeq Size: 3570 bp

RefSeq ORF: 2658 bp

Locus ID: 8622

UniProt ID: [O95263](#)

<b>Cytogenetics:</b>	5q13.3
<b>Domains:</b>	PAS, PDEase
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Progesterone-mediated oocyte maturation, Purine metabolism
<b>Gene Summary:</b>	The protein encoded by this gene is a cyclic nucleotide phosphodiesterase (PDE) that catalyzes the hydrolysis of the second messenger cAMP. The encoded protein, which does not hydrolyze cGMP, is resistant to several PDE inhibitors. Defects in this gene are a cause of autosomal dominant striatal degeneration (ADSD). Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jul 2010]