

## Product datasheet for **RC218147**

### **PDE8B (NM\_001029853) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE8B (NM_001029853) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDE8B
Synonyms:	ADSD; PPNAD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC218147 representing NM\_001029853  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCTGCGCCCCAGCATCCATGTCTCGCAGAGCGGCGTGATCTACTGCCGGGACTCGGACGAGTCCA  
 GCTCGCCCCGCCAGACCACCAGCGTGTGCGAGGGCCCGGCGGCACCCCTGCCCGGCTCTTCGTCCAGAC  
 CGACGCCGCCGACGCCATCCCCCGAGCCGCGCGTCCGGACCCCCAGCGTAGCCCGCGTCCGCAGGGCC  
 CGCACCGAGCTGGGCAGCGGTAGCAGCGCGGGTCCGCAGCCCCGCGCGACCACCAGCAGGGGCCGGA  
 GGCGCCACTGCTGCAGCAGCGCCGAGGCGGAGACTCAGACCTGCTACACCAGCGTGAAGTTTTGCTGAT  
 CTTTGCAAAGGAAGATAGTCAGAGCGATGGCTTCTGGTGGCCTGCGACAGAGCTGGTTATAGATGCAAT  
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 ATAGACAAACTCAGAACTTCGATGCAGAAGCAGTGTGCAGGTGATCCGGGCCACAAATCCCTCCGAGCA  
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 CACGCAGGCTTCAACAGGAGATTTATGGAGAATAGCAGCATAATTGCTTGTATAATGAAGTATTGATCAA  
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 CTGTATGAAGCCATAGAAATAACAAGCGATGACCACGTGATTAGTATGTCAACCCAGCCTTCGAAAGG  
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 CAGACGGAAATCCGGGGACAGCATCCAACAGCAGTGAAGATCACCCAGTGATTGGCCAAGGAGGGAAA  
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 ATCGTGATTCAGGAGACAATTCAGACAGAGCCTCATTATTGATATAAAGAAGGAGGAAAGAGTGC  
 CATTGACGTGAAATCGATATCATCTCGAGGAGTGCACCAAGCCTGCAGAATCGTCGCTATCCGTCC  
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 GACGGCTTGAGAAGACTGTCAGGAAACGAGTATGTGTTTACTAAGAATGTGCACCAGAGTACAGTCACC  
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 GGACTTCAACATCTTTGAATTGGAAGCCATTACGCATAAAAGGCCATTGGTTTATCTGGGCTTAAAGGTC  
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 GCTGCCACAGTCCATGACGTGGATCACCCGGGAAGGACCAACTCTTCTCTGCAATGCAGGCAGTGAGC  
 TTGCTGTGCTCTACAATGACACTGCTGTCTGGAGAGTACCACACCCGCTGGCCTTCCAGCTCACGGT  
 CAAGGACACCAATGCAACATTTTCAAGAATATTGACAGGAACCATATCGAACGCTGCGCCAGGCTATT  
 ATTGACATGGTTTTGGCAACAGAGATGACAAAACACTTTGAACATGTGAATAAGTTTGTGAACAGCATCA  
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 ACAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC218147 representing NM\_001029853  
 Red=Cloning site Green=Tags(s)

MGCAPSIHVSQSGVIYCRDSESSSPRQTTSVSQGPAAPLPGLFVQTDAAAIPPSRASGPPSVARVRRARTELGSGSSAGSAAPAATTSRGRRRRHCCSSAEAEQTQCYTSVKVLLIFAKEDSQSDGFWWACDRAGYRCNIARTPESALECFLDKHEIIVIDHRQTQNFDAEAVCRSIRATNPSEHTVILAVVSRVSDDHHEEASVLPLLHAGFNRRFMENSSIIACYNELIQIEHGEVRSQFKLRACNSVFTALDHCHEAIEITSDDHVIQYVNPAPERMMGYHKGELLGKELADLPKSDKNRADLLDTINTCIKKGKEWQGVYARRKSGDSIQQHVKITPVIQGGKIRHFVSLKCLCTDNNKQIHKIHRDSDNSQTEPHSFYKNNRRKESIDVKSISSRGSDAPSLQNNRYPSMARIHSMITIEAPITKVINIINAAQENSPVTVAEALDRVLEILRTTELYSPQLGTDKDEPHTSDLVGLMTDGLRRLSGNEYVFTKNVHQSHSLAMPITINDVPPCISQLLDNEESWDFNIFELEAITHKRPLVYLGLKVFSTRFGVCEFLNCSETTLRAWFQVIEANYHSSNAYHNSTHAADV LHATAFFLGKERVKGS LDQLDEVAALI AATVHDVDHPGRTNSFLCNAGSELAVLYNDTAVLESHHTALAFQLTVKDKCNIFKNIDRNHYRTLROAIDMVLATEMTKHFVHNKFNVSINKPMAAEIEGSDCECNPAGKNFENQILIKRMMIKCADVANPCRPLDLCIEWAGRISSEYFAQTDEEKRQLPVVMPVDFRNTCSIPKSQISFIDYFITDMFDAWDAFAHLPALMQHLADNYKHWKTLDDLKCKSLRLPDS

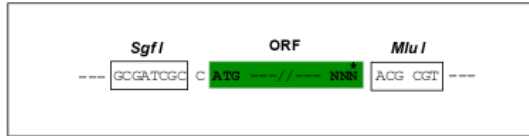
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8016\\_a09.zip](https://cdn.origene.com/chromatograms/mk8016_a09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

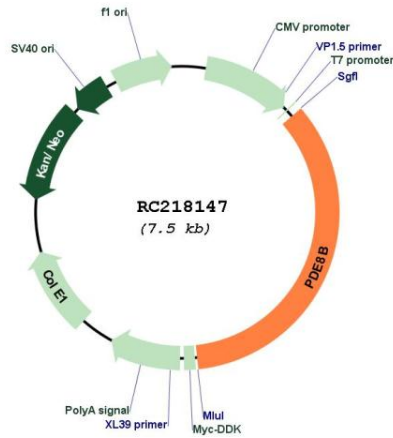
Cloning sites used for ORF Shuttling:



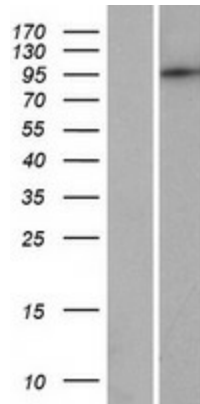
\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_001029853
<b>ORF Size:</b>	2595 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001029853.4</a>
<b>RefSeq Size:</b>	3510 bp
<b>RefSeq ORF:</b>	2598 bp
<b>Locus ID:</b>	8622
<b>UniProt ID:</b>	<a href="#">O95263</a>
<b>Cytogenetics:</b>	5q13.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Progesterone-mediated oocyte maturation, Purine metabolism
<b>MW:</b>	96.6 kDa
<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]

Product images:



Circular map for RC218147



Western blot validation of overexpression lysate (Cat# [LY422472]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218147 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).