

## Product datasheet for **SC125479**

### **PDE8B (NM\_003719) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE8B (NM_003719) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE8B
Synonyms:	ADSD; PPNAD3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene ORF sequence for NM_003719 edited
ATGGGCTGCGCCCCAGCATCCATGTCTCGCAGAGCGGCGTGATCTACTGCCGGGACTCG
GACGAGTCCAGCTCGCCCCGCCAGACCACCAGCGTGTGCGAGGGCCCGGCGGCACCCCTG
CCCGGCTCTTCGTCCAGACCGACCGCCGACGCCATCCCCCGAGCCGCGCGTCGGGA
CCCCCAGCGTAGCCCGGTCCGCGAGGGCCCGCACCGAGCTGGGCAGCGGTAGCAGCGCG
GGTTCGCGAGCCCCCGCGCGACCACCAGCAGGGGCCGGAGGCCCACTGCTGCAGCAGC
GCCGAGGCCGAGACTCAGACCTGCTACACCAGCGTGAAGCAGGTGCTTTCTGCGGAGGTG
CGCATCGGGCCCATGAGACTGACGCAGGACCCTATTCAGGTTTTGCTGATCTTTGCAAAG
GAAGATAGTCAGAGCGATGGCTTCTGGTGGCCTGCGACAGAGCTGGTTATAGATGCAAT
ATTGCTCGGACTCCAGAGTCAGCCCTTGAATGCTTTCTTGATAAGCATCATGAAATTATT
GTAATTGATCATAGACAACTCAGAACTTCGATGCAGAAGCAGTGTGCAGGTCGATCCGG
GCCACAAATCCCTCCGAGCACACGGTGATCCTCGCAGTGGTTTCGCGAGTATCGGATGAC
CATGAAGAGGCGTCAGTCTTCTCTTCCACGCAGGCTTCAACAGGAGATTTATGGAG
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TCCAGTTCAAATACGGGCTGTAATTCAGTGTTCACAGCATTAGATCACTGTCATGAA
GCCATAGAAATAACAAGCGATGACCACGTGATTAGTATGTCAACCCAGCCTTCGAAAGG
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TCTCAGACAGAGCCTCATTCAATCAGATATAAGAACAGGAGGAAAGAGTCCATTGACGTG
AAATCGATATCATCTCGAGGCAGTGATGCACCAAGCCTGCAGAAATCGTCTGATCCGCTC
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AATGCAGCCCAAGAAAACAGCCAGTCACAGTAGCGGAAGCCTTGACAGAGTTCTAGAG
ATTTTACGGACCACAGAAGTACTCCCTCAGCTGGGTACCAAAGATGAAGATCCCCAC
ACCAGTGATCTTGTGGAGGCTGATGACTGACGGCTTGAGAAGACTGTCAGGAAACGAG
TATGTGTTTACTAAGAATGTGCACCAGAGTCACAGTCACCTTGCAATGCCAATAACCATC
AATGATGTTCCCTTGTATCTCTCAATTAATTGATAATGAGGAGAGTTGGGACTTCAAC
ATCTTTGAATTGGAAGCCATTACGCATAAAAGGCCATTGGTTTATCTGGGCTTAAAGGTC
TTCTCTCGGTTTGGAGTATGTGAGTTTTTAAACTGTTCTGAAACCACTCTCGGGCTGG
TTCCAAGTGATCGAAGCCAACTACCACTTCCAATGCCTACCACAACCTCCACCCATGCT
GCCGACGTCTGCACGCCACCGCTTTCTTTCTTGAAAGGAAAGAGTAAAGGGAAGCCTC
GATCAGTTGGATGAGGTGGCAGCCCTCATTGCTGCCACAGTCCATGACGTGGATCACCCG
GGAAGGACCAACTTTTTCTCTGCAATGCAGGCAGTGAGCTTGCTGTGCTCTACAATGAC
ACTGCTGTTCTGGAGAGTCACCACACCGCCCTGGCCTTCCAGCTCACGGTCAAGGACACC
AAATGCAACATTTTCAAGAATATTGACAGGAACCATTATCGAACGCTGCGCCAGGCTATT
ATTGACATGGTTTTGGCAACAGAGATGACAAAACACTTTGAACATGTGAATAAGTTTGTG
AACAGCATCAACAAGCCAATGGCAGCTGAGATTGAAGGCAGCGACTGTGAATGCAACCT
GCTGGGAAGAAGTCCCTGAAAACCAAATCCTGATCAAACGCATGATGATTAAGTGTGCT
GACGTGGCCAACCCATGCCGCCCTTGACCTGTGCATTGAATGGCTGGGAGGATCTCT
GAGGAGTATTTTGCACAGACTGATGAAGAGAAGAGACAGGGACTACCTGTGGTATGCCA
GTGTTTACCAGCAATACCTGTAGCATCCCCAAGTCTCAGATCTTTTCAATGACTACTTC
ATAACAGACATGTTTGTGCTTGGGATGCCTTTGCACATCTGCCAGCCCTGATGCAACAT
TTGGCTGACAACATAAACACTGGAAGACACTAGATGACCTAAAGTGCAAAAGTTTGAGG
CTTCCATCTGACAGCTAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_003719 unedited GCACGAGGGGAAAGTTGGGGTGACGCGCGCGGTCCCCGGAGGCTCGGCGGGGGACCCGCGCCAGCCGACGGAGCGCGGACACACAGGCCGGGGGGCGCGCAGTCCGGGGCGCCGCCGCGCCGCCCTCACTGCAGGTGGCAGCGGGTGCCTGGTCCCGGGCGCCGCGGGCGCGGGGGCGCGGGGAGCCCGCGGAGGGATGGGCTGCGCCCCAGCATCCATGTCTCGCAGAGCGGCGTGATCTACTGCCGGGACTCGGACGAGTCCAGCTCGCCCCGCCAGACCACAGCGTGTGCGAGGGCCCGCGGCACCCCTGCCCGGCTTTCGTCCAGACCGACGCGCCGACGCCATCCCCCGAGCCGCGCGTCCGGACCCCGAGCGTAGCCCGCGTCCGCAGGGCCCGACCCGAGCTGGGCAGCGGTAGCAGCGGGTCCGCAGCCCCCGCGGACCCAGCAGGGGGCCGAGCGCCACTGCTGCAGCAGCGCGAGGCCGAGACTCAGACCTGTACACAGCGTGAAGCAGGTGTCTTCTGCGGAGGTGCGCATCGGGCCATGAGACTGACGCAG
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_003719 unedited AGCCCATATGGCGAATGGCCACTTTCAGGCCCGTAAAGCACTGGGGTAGGGTACAGG GCATGCCACCCGGTTCTGTTTCAGAAAACAGCTATGACCGCGCCGAATCTATAGTCGAGTTTTTTTTTTTTTTTTTAAAAAAGCTTGCCAAGGGCATTCAAATTTAATGGCTTTT ATATAACTTGGTGTAGTGCCTCGTGGCTGCCTCTGTGAACAAAAATAAGGAAGCTC ATGGATCCCCAAAAATGAAATGCCACTTTTTCCCTCATCATGGATGACTTTGTTAAGAT GAACCCCTTTTACAGGAAAGGGTTACACAGGCTGCTGATACCAGTCTAGAGAGGGCACC CACCAGCAAGGCTGTGTTCTAACTTAGGTGCATACCCTCGGCCAAAATAACCATGTTG CCATAGAGGCTGTGAAGCTAACTAGTTTATCTGTAATTTGGTCTAGTTGTTTCACTTAT TTTATGTCGTTTTTTTTTTTTTCTTAAATAAATCTGTTTCAGATAAGCTCCTTATGAATCCT TCATATCGATGTTCTTGAAGAAAACAGTCAAGCTAAACAGCAATGATGACTTTTATGGTA AAGGATGATCTGATCACTANCTAATCTACTTACTCACCATCCTGGGAGATGAGCTCACAG GCACCAAGGCTTTGCTTCTGTGGCCTGCTAGTTACAGTGAACCATCTCCGTGGATTGAC AAGGGTACACAGGATGACAGCAGAGCAAAGGAGTTTGCCAAGTATTTGTTCTGTCATTA GTATTCAAAAGAACATATTTTTTCTCCTCATGGAACATAACTTTCTAAAAATGAAATTTG GGGACTTTGATGATTCAAGGTCAAATATTAACATTAGCTCCTTACCATACCTGTTTCAT GTATTAGAAAGT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003719
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_003719.2</a></u> , <u><a href="#">NP_003710.1</a></u>

RefSeq Size:	3570 bp
RefSeq ORF:	2658 bp
Locus ID:	8622
UniProt ID:	<a href="#">O95263</a>
Cytogenetics:	5q13.3
Domains:	PAS, PDEase
Protein Families:	Druggable Genome
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>