

Product datasheet for **SC302441**

PDE8B (NM_001029854) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE8B (NM_001029854) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE8B
Synonyms:	ADSD; PPNAD3
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001029854, the custom clone sequence may differ by one or more nucleotides

```

ATGGGGCTGCGCCCCAGCATCCATGTCTCGCAGAGCGGCGTGATCTACTGCCGGGACTCG
GACGAGTCCAGCTCGCCCCGCCAGACCACCAGCGTGTGCGAGGGCCCGGGCACCCTG
CCCGGCTCTTCGTCCAGACCGACGCCCGGACGCCATCCCCCGAGCCGCGCTCGGA
CCCCCAGCGTAGCCCGGTCCGACGGGCCGACCCGAGCTGGCAGCGGTAGCAGCGCG
GGTTCGCGAGCCCCCGCGGACCACCAGCAGGGGCCGAGGCGCCACTGCTGCAGCAGC
GCCGAGGCCGAGACTCAGACCTGCTACACCAGCGTGAAGCAGGTGCTTCTGCGGAGGTG
CGCATCGGGCCATGAGACTGACGCAGGACCCTATTAGGTTTTGCTGATCTTTGCAAAG
GAAGATAGTCAGAGCGATGGCTTCTGGTGGCCTGCGACAGAGCTGGTTATAGATGCAAT
ATTGCTCGGACTCCAGAGTCAGCCCTTGAATGCTTTCTTGATAAGCATCATGAAATTATT
GTAATTGATCATAGACAACTCAGAACTTCGATGCAGAAGCAGTGTGCAGGTCGATCCGG
GCCACAAATCCCTCCGAGCACACGGTGATCCTCGCAGTGGTTTCGCGAGTATCGGATGAC
CATGAAGAGGCGTCAGTCTTCTTCTCCACGCAGGCTTCAACAGGAGATTTATGGAG
AATAGCAGCATAATTGCTTGCTATAATGAACTGATTCAAATAGAACATGGGGAAGTTCGC
TCCAGTTCAAATTACGGGCTGTAATTAGTGTTTACAGCATTAGATCACTGTGATGAA
GCCATAGAAATAACAAGCGATGACCACGTGATTAGGAGTGGCAGGGGTTTACTATGCC
AGACGGAAATCCGGGGACAGCATCCAACAGCACGTGAAGATCACCCAGTGATTGGCCAA
GGAGGGAAATAGGCATTTTGTCTCGCTCAAGAACTGTGTTGTACCACTGACAATAAT
AAGCAGATTCACAAGATTCATCGTGATTCAGGAGACAATTCTCAGACAGAGCCTCATTCA
TTCAGATATAAGAACAGGAGGAAAGAGTCCATTGACGTGAAATCGATATCATCTCGAGGC
AGTGATGCACCAAGCCTGCAGAATCGTCGCTATCCGTCCATGGCAGGATCCACTCCATG
ACCATCGAGGCTCCCATCACAAAGTTATAAATAAATCAATGCAGCCCAAGAAAACAGC
CCAGTCACAGTAGCGGAAGCCTTGGACAGAGTTCTAGAGATTTTACGGACCACAGAACTG
TACTCCCTCAGCTGGGTACAAAGATGAAGATCCTCACACCAGTGATCTTGTGGAGGC
CTGATGACTGACGGCTTGAGAAGACTGTCAGGAAACGAGTATGTGTTTACTAAGAATGTG
CACCAGAGTCACAGTCACCTTGCAATGCCAATAACCATCAATGATGTTCCCTTGTATC
TCTCAATTACTTGATAATGAGGAGAGTTGGGACTTCAACATCTTTGAATTGGAAGCCATT
ACGCATAAAAGGCCATTGGTTTATCTGGGCTTAAAGGTCTTCTCGGTTTGGAGTATGT
GAGTTTTTAAACTGTTCTGAAACCACTCTTCGGGCTGGTTCCAAGTGATCGAAGCCAAC
TACCCTCTTCCAATGCCTACCACAACCTCCACCCATGCTGCCGACGTCTGCACGCCACC
GCTTTCTTTCTTGAAAGGAAAGAGTAAAGGGAAGCCTCGATCAGTTGGATGAGGTGGCA
GCCCTCATTGCTGCCACAGTCCATGACGTGGATCACCCGGAAGGACCAACTCTTTCCTC
TGCAATGCAGGCAGTGAGCTTGCTGTGCTTACAATGACACTGCTGTTCTGGAGAGTCAC
CACACCGCCTGGCCTTCCAGCTCACGGTCAAGGACACCAATGCAACATTTTCAAGAA
ATTGACAGGAACCATTATCGAACGCTGCGCCAGGCTATTATTGACATGGTTTTGGCAACA
GAGATGACAAAACACTTTGAACATGTGAATAAGTTTGTGAACAGCATCAACAAGCCAATG
GCAGCTGAGATTGAAGGCAGCGACTGTGAATGCAACCTGCTGGGAAGAACTTCCCTGAA
AACCAAACTCTGATCAAACGCATGATGATTAAGTGTGCTGACGTGGCCAACCCATGCCGC
CCCTTGGACCTGTGCATTGAATGGCTGGGAGGATCTCTGAGGAGTATTTTGCACAGACT
GATGAAGAGAAGAGACAGGGACTACCTGTGGTGTGCCAGTGTGTTGACCGGAATACCTGT
AGCATCCCAAGTCTCAGATCTCTTTCATTGACTACTTCATAACAGACATGTTTGATGCT
TGGGATGCCTTTGCACATCTGCCAGCCCTGATGCAACATTTGGCTGACAACATAAAACAC
TGGAAGACACTAGATGACCTAAAGTGCAAAAGTTTGGGCTTCCATCTGACAGCTAA
    
```

Restriction Sites: Please inquire
ACCN: NM_001029854

OTI Disclaimer:	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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001029854.1</u> , <u>NP_001025025.1</u>
RefSeq Size:	3429 bp
RefSeq ORF:	2517 bp
Locus ID:	8622
UniProt ID:	<u>O95263</u>
Cytogenetics:	5q13.3
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 (2) lacks an alternate in-frame exon compared to variant 1. The encoded isoform (2) is shorter compared to 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>