

Product datasheet for **RC214305**

PDE8B (NM_001029852) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE8B (NM_001029852) 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:

>RC214305 representing NM_001029852
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTGCGCCCCAGCATCCATGTCTCGCAGAGCGGCGTGATCTACTGCCGGACTCGGACGAGTCCA
 GCTCGCCCCGCCAGACCACCAGCGTGTGCGAGGGCCCGGCGGCACCCCTGCCCGGCTCTTCGTCCAGAC
 CGACGCCGCCGACGCCATCCCCCGAGCCGCGCGTCCGGACCCCCAGCGTAGCCCGCGTCCGCAGGGCC
 CGCACCGAGCTGGGCAGCGGTAGCAGCGCGGGTCCGAGCCCCGCGCGACCACCAGCAGGGGCCGGA
 GGCGCCACTGCTGCAGCAGCGCCGAGGCGGAGACTCAGACCTGCTACACCAGCGTGAAGCAGGTGTCTTC
 TGCGGAGGTGCGCATCGGGCCATGAGACTGACGCAGGACCCTATTCAGGTTTTGCTGATCTTTGCAAAAG
 GAAGATAGTCAGAGCGATGGCTTCTGGTGGCCTGCGACAGAGCTGGTTATAGATGCAATATTGCTCGGA
 CTCAGAGTCAGCCCTTGAATGCTTTCTTGATAAGCATCATGAAATTATTGTAATTGATCATAGACAAAC
 TCAGAACTTCGATGCAGAAGCAGTGTGCAGGTCGATCCGGGCCACAAATCCCTCCGAGCACCGGTGATC
 CTCGACGTGGTTTTCGCGAGTATCGGATGACCATGAAGAGGCGTCAGTCCCTCCTCTCTCCACGCAGGCT
 TCAACAGGAGATTTATGGAGAATAGCAGCATAATTGCTTGCTATAATGAACTGATTCAAATAGAACATGG
 GGAAGTTCGCTCCAGTTCAAATTACGGGCCTGTAATTCAGTGTTTACAGCATTAGATCACTGTCATGAA
 GCCATAGAAAATAACAAGCGATGACCACGTGATTCAGTATGTCAACCCAGCCTTCGAAAGGATGATGGGCT
 ACCACAAGGTGAGCTCCTGGGAAAAGAACTCGCTGATCTGCCAAAAGCGATAAGAACCAGGAGAGCCT
 TCTCGACACCATCAATACATGCATCAAGAAGGGAAAGGAGTGGCAGGGGGTTACTATGCCAGACGGAAA
 TCCGGGGACAGCATCAAACAGCACGTGAAGATCACCCAGTGATTGGCCAAGGAGGAAAATTAGGCATT
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 AGGAGACAATTCTCAGACAGAGCCTCATTATTGAGATATAAGAACAGGAGGAAAAGAGTCCATTGACGTG
 AAATCGATATCATCTCGAGGCGATGACACCAAGCCTGCAGAATCGTCGCTATCCGTCCATGGCGAGGA
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 AAAAAAGGCCATTGGTTTATCTGGGCTTAAAGGCTTCTCTCGGTTTGGAGTATGTGAATTTTTAAACTG
 TTCTGAAACCACTCTTCGGGCTGGTTCCAAGTATCGAAGCCAACCTACCACTCTTCCAATGCCTACCAC
 AACTCCACCCATGCTGCCGAGCTCCTGCACGCCACCGCTTCTTTCTTGGAAAGGAAAGAGTAAAGGGAA
 GCCTCGATCAGTTGGATGAGGTGGCAGCCCTCATTGCTGCCACAGTCCATGACGTGGATCACCCGGGAAAG
 GACCAACTCTTTCCTCTGCAATGCAGGCGAGTGTGCTGTGCTCTACAATGACACTGCTGTTCTGGAG
 AGTCACCACACCGCCCTGGCCTTCCAGCTCACGGTCAAGGACACCAATGCAACATTTTCAAGAATATTG
 ACAGGAACCATTATCGAACGCTGCGCCAGGCTATTATTGACATGGTTTTGGCAACAGAGATGACAAAACA
 CTTTGAACATGTGAATAAGTTTGTGAACAGCATCAACAAGCCAATGGCAGCTGAGATTGAAGGCAGCGAC
 TGTGAATGCAACCCTGCTGGGAAGAACTCCCTGAAAACCAATCCTGATCAAACGCATGATGATTAAGT
 GTGCTGACGTGGCAACCCATGCCGCCCTTGGACCTGTGCATTGAATGGGCTGGGAGGATCTCTGAGGA
 GTATTTTGCACAGACTGATGAAGAGAAGAGACAGGGACTACCTGTGGTGTGATGCCAGTGTGTTGACCCGAAT
 ACCTGTAGCATCCCCAAGTCTCAGATCTTTTCATTGACTACTTCATAACAGACATGTTTGATGCTTGGG
 ATGCCCTTGCACATCTGCCAGCCCTGATGCAACATTTGGCTGACAACACTACAAACACTGGAAGACACTAGA
 TGACCTAAAGTGCAAAAGTTTGGAGCTTCCATCTGACAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214305 representing NM_001029852
Red=Cloning site Green=Tags(s)

MGCAPSIHVSQSGVIYCRDSESSSPRQTTSVVSQGAAPLPGLFVQTDAAAIPPSRASGPPSVARVRRARTELGSGSSAGSAAPAATTSRGRRRHCCSSAEAEQTCTYTSVKQVSSAEVRIGPMRLTQDPIQVLLIFAKEDSQSDGFWWACDRAGYRCNIARTPESALECFLDKHHEIIVIDHRQTQNFDAEAVCRSIRATNPSEHTVILAVVSRVSDDHHEASVLP LLHAGFNRRFMENSSIIACYNELIQIEHGEVRSQFKLRACNSVFTALDHCHEAIEITSDDHVIQYVNPFAFERMMGYHKGELLGKELADLPKSDKNRADLLDTINTCIKKGKEWQGVYYARRKSGDSIQQHVKITPVIGQGKIRHFVSLKKLCCTDNNKQIHKIHRDSDNSQTEPHSFRYKNRRKESIDVKSISSRGSDAPSLQNRYP SMARIHSMTIEAPITKDGLRRLSGNEYVFTKNVHQSHSLAMPITINDVPPCISQLLDNEESWDFNIFELEAITHKRPLVYLGLKVFSRFGVCEFLNCSETTLRAWFQVIEANYHSSNAYHNSTHAADVLHATAFFLGKERVKGSLDQLDEVAALIAATVHDVDHPGRTNSFLCNAGSELAVLYNDTAVLESHHTALAFQLTVKDKCNIFKNIDRNHYRTL RQAIIDMVLATEMTKHFHVNKVNSINKPMAAEIEGSDCECNPAGKNFPENQILIKRMMIKADV ANPCRPLDLCIEWAGRIS EEFY AQTDEEKRQGLPVVMPVFDRTCSIPKSQISFIDYF ITDMF DAWDAFAHL PALMQHLADNYKHWKTLDDLKCKSLRRLPSDS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

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_001029852.4](#)

RefSeq Size: 4240 bp

RefSeq ORF: 2493 bp

Locus ID: 8622

UniProt ID: [O95263](#)

Cytogenetics: 5q13.3

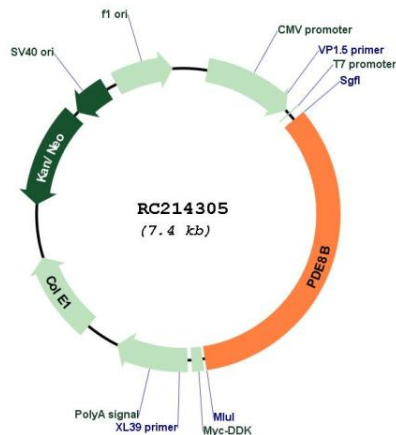
Protein Families: Druggable Genome

Protein Pathways: Progesterone-mediated oocyte maturation, Purine metabolism

MW: 93 kDa

Gene Summary: 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 RC214305