

Product datasheet for **RG214305**

PDE8B (NM_001029852) Human Tagged ORF Clone

Product data:

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

>RG214305 representing NM_001029852
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTGCGCCCCAGCATCCATGTCTCGCAGAGCGGCGTGATCTACTGCCGGGACTCGGACGAGTCCA
 GCTCGCCCCGCCAGACCACCAGCGTGTGCGAGGGCCCGGCGGCACCCCTGCCCGGCTCTTCGTCCAGAC
 CGACGCCGCCGACGCCATCCCCCGAGCCGCGCGTCCGGACCCCCAGCGTAGCCCGCGTCCGCAGGGCC
 CGCACCGAGCTGGGCAGCGGTAGCAGCGCGGGTCCGAGCCCCCGCGGACCACCAGCAGGGGCCGGA
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 GAAGATAGTCAGAGCGATGGCTTCTGGTGGCCTGCGACAGAGCTGGTTATAGATGCAATATTGCTCGGA
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 TCAGAACTTCGATGCAGAAGCAGTGTGCAGGTCGATCCGGGCCACAAATCCCTCCGAGCACCGGTGATC
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 TCAACAGGAGATTTATGGAGAATAGCAGCATAATTGCTTGCTATAATGAACTGATTCAAATAGAACATGG
 GGAAGTTCGCTCCAGTTCAAATTACGGGCCTGTAATTCAGTGTTTACAGCATTAGATCACTGTCATGAA
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 CTTTGAACATGTGAATAAGTTTGTGAACAGCATCAACAAGCCAATGGCAGCTGAGATTGAAGGCAGCGAC
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 ACCTGTAGCATCCCCAAGTCTCAGATCTTTTCACTTACTTCAATAACAGACATGTTTGATGCTTGGG
 ATGCCCTTGCACATCTGCCAGCCCTGATGCAACATTTGGCTGACAACACTACAAACACTGGAAGACACTAGA
 TGACCTAAAGTGCAAAAGTTTGGAGCTTCCATCTGACAGC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214305 representing NM_001029852
 Red=Cloning site Green=Tags(s)

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MGCAPSIHVSQSGVIYCRDSESSPRQTTSVSQGPAAPLPGLFVQTDAADAIPPSRASGPPSVARVRR
RTELGSGSSAGSAAPAATTSRGRRRHCCSSAEAEQTCTYTSVKQVSSAEVRIGPMRLTQDPIQVLLIFAK
EDSQSDGFWWACDRAGYRCNIARTPESALECFLDKHHEIIVIDHRQTQNFDAEAVCRSIRATNPSEHTVI
LAVVSRVSDDHHEASVLP LLHAGFNRRFMENSSIIACYNELIQIEHGEVRSQFKLRACNSVFTALDHCHE
AIEITSDDHVIQYVNPFAFERMMGYHKGELLGKELADLPKSDKNRADLLDTINTCIKKGKEWQGVYYARRK
SGDSIQQHVKITPVIGQGKIRHFVSLKKLCCTTDNNKQIHKIHRDSDNSQTEPHSFRYKNRRKESIDV
KSISRRGSDAPSLQNRYP SMARIHSM TIEAPITKDGLRRLSGNEYVFTKNVHQSHSLAMPITINDVPP
CISQLLDNEESWDFNIFELEAITHKRPLVYLGLKVFSRFGVCEFLNCSETTLRAWFQVIEANYHSSNAYH
NSTHAADVLHATAFFLGKERVKGSLDQLDEVAALIAATVHDVDHPGRTNSFLCNAGSELAVLYNDTAVLE
SHHTALAFQLTVKDKCNIFKNIDRNHYRTL RQAIIDMVLATEMTKHFHVNKFVNSINKPMAAEIEGSD
CECNPAGKNFPENQILIKRMMIKADV ANPCRPLDLCIEWAGRISEEYFAQTDEEKRQGLPVVMPVFD RN
TCSIPKSQISFIDYF ITDMF DAWDAFAHL PALMQHLADNYKHWKTLDDLKCKSLRLPSDS
  
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TRTRPLE - GFP Tag - V

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](#)

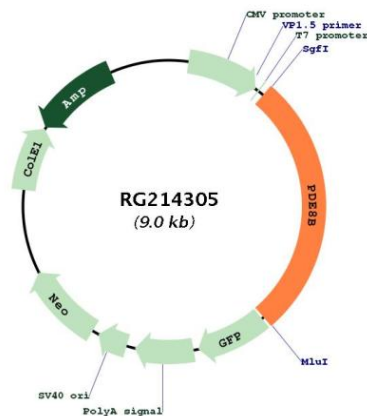
Cytogenetics: 5q13.3

Protein Families: Druggable Genome

Protein Pathways: Progesterone-mediated oocyte maturation, Purine metabolism

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 RG214305