

Product datasheet for **RC217197**

PDE8A (NM_173454) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE8A (NM_173454) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDE8A
Synonyms:	HsT19550
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC217197 representing NM_173454
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTGTGCCCGAGCATCCACATTTCCGAGCGCTGGTGGCCGAGGACGCGCCTAGCCCCGCGGCAC
 CGCCGCTGTCGTCGGCGGGCCGCGCCTCCCGCAGGGCCAGAAGACGGCCGCTTGCCCCGACCCGCGG
 CGCCGGCCTCTTGAGTCGGAGCTTCGCGACGGCAGCGCAAGAAGGTAGCAGTAGCTGATGTGCAGTTT
 GGCCCCATGAGATTTTCATCAAGATCAACTTCAGGTACTTTTAGTGTTTACCAAAGAAGATAACCAATGTA
 ATGGATTCTGCAGGGCATGTGAAAAAGCAGGGTTAAAGTGTACAGTTACCAAGGAGGCTCAGGCTGTCT
 TGCCTGTTTCTGGACAAACATCATGACATTATCATCATAGACCACAGAAATCCTCGACAGCTGGATGCA
 GAGGCACTGTGCAGGTCTATCAGATCATCAAACCTCTCAGAAAACACAGTTATTGTTGGTGTAGTACGCA
 GGGTGGATAGAGAAGAGTTGCCGTAATGCCTTTCATTTCTGCTGGATTTACAAGGAGGTATGTAGAAAA
 CCCCAACATCATGGCCTGCTACAATGAAGTCTCCAGCTGGAGTTGGAGAGGTGCGATCACAACAGTAA
 CTAGGGCTTGAAGTCACTGATTTACTGCAATAGAAAACAGTGAAGATGCAATTGAAATTACAAGCGAAG
 ACCGTTTTATACAGGAGTGGCAAGGAATTTACTATGCCAAAAAGAAAAACGGAGATAATATACAACAAAA
 TGTGAAGATAATACCTGTATTGGACAGGGAGGAAAAATAGACACTATGTGTCCATTATCAGAGTGTGC
 AATGGCAACAATAAGGCTGAGAAAAATACCGAATGTGTTCACTGACTCATAACAGATAATCAGACAG
 GCAACATAAAGACAGGAGAAAAAGGCTCACTAGACGTCAAAGCTGTTGCCTCCCGTGAACCTGAAGTTTC
 CAGCCAGAGACGACACTTCCATGGCCGGATACATTCATGACAATTGAGGCGCCATCACCAGGTA
 ATCAATATTATCAATGCTGCCAGGAAAGTAGTCCCATGCCTGTGACAGAAGCCCTAGACCGTGTGCTG
 AAATTCTAAGAACCCTGAGTTATATCCACCAGTTTGGTGTCTAAAGATGATGATCCCCATGCCAATGA
 CCTTGTGGGGGCTTAATGTCTGATGGTTTGGCAAGACTATCAGGGAATGAATATGTTCTTTCAACAAAA
 AACACTCAAATGGTTTCAAGCAATAATCACTCCCATCTCCCTTGTGATGTCCACCACGGATAGCTC
 GGGCCATGAAAAATGAGGAATACTGGGACTTTGATATTTTTGAACTGGAGGCTGCCACCCACAATAGGCC
 TTTGATTTATCTTGGTCTCAAAATGTTTCTCGCTTTGGAATCTGTGAATTCTTACACTGCTCCGAGTCA
 ACGCTAAGATCATGGTTACAAATATCGAAGCCAATTATCATTCTCCAATCCCTACCACAATTCTACAC
 ATTCTGCTGATGTGCTTCATGCCACTGCCTATTTCTCTCAAGGAGAGGATAAAGGAACTTTAGATCC
 AATTGATGAGGTCGCTGCACTCATCGCAGCCACCATTATGATGTGGATCACCTGGGAGAACCACTCC
 TTCTGTGTAATGCTGGAAGTGAAGTGGCCATTTGTACAATGACTGCTGTGCTGGAGAGCCACCATG
 CGGCTTGGCCTTCCAGCTGACCACTGGAGATGATAAATGCAATATATTTAAAAACATGGAGAGGAATGA
 TTATCGGACACTGCGCCAGGGGATTATCGACATGGTCTTAGCCACAGAAATGACAAGCACTTTGAGCAT
 GTCAACAAATTTGTCAACAGCATCAACAAACCTTGGCAACTAGAAGAAAAATGGGAAACTGATAAAA
 ACCAGGAAGTGATAAACACTATGCTTAGGACTCCAGAGAACCAGCCTAATCAACGAATGCTGATTAA
 ATGTGCTGATGTGTTCAATCCCTGCCGACCCTGCAGTACTGCATCGAGTGGGCTGCACGCATTTGCGAA
 GAATATTTTCTCAGACTGATGAAGAGAAGCAGCAGGGCTTACCTGTGGTGTGATGCCAGTGTGACAGAA
 ATACCTGCAGCATCCCCAAATCCCAATCTCTTTCATTGATTACTTCATCACAGACATGTTTGTGCTTG
 GGATGCCTTTGTAGACCTGCCTGATTTAATGCAGCATCTTGACAACAACCTTAAATACTGGAAAGGACTG
 GACGAAATGAAGCTGCGAACCTCCGACCACCTCCTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217197 representing NM_173454
Red=Cloning site Green=Tags(s)

MGCAPSIHISERLVAEDAPSPAAPPLSSGGPRLPQGQKTAALPRTRGAGLLESELRDGSGKKVAVADVQF
GPMRFHQDQLQVLLVFTKEDNQCNGFCRACEKAGFKCTVTKAQAVLACFLDKHHDIIIDHRNPRQLDA
EALCRSIRSSKLSSENTVIVGVRRVDREELSVMPFISAGFTRRYVENPNIMACYNELQLLEFGEVRSQK
LRACNSVFTALENSEDAIEITSEDRFIQEWQGIYYAKKNGDNIQQNVKIIPVIGQGGKIRHYVSIIRVC
NGNNAEKISECVQSDTHDNQTGKHKDRRKGSLDVKAVASRATEVSSQRRHSSMARIHSMTEAPITKV
INIINAAQESSMPVTEALDRVLEILRTTELYSPQF GAKDDDPHANDLVGGLMSDGLRRLSGNEYVLSTK
NTQMVSSNIITPISLDDVPPRIARAMENEEYWDFDIFELEAATHNRPLIYGLKMFARFGICEFLHCSES
TLRSWLQIIEANYHSSNPYHNSTHSADVLHATAYFLSKERIKETLDPIDEVAALIAATIHVDVHPGRNTS
FLCNAAGSELAAILYNDTAVLESHHAALAFQLTTGDDKCNIFKNMERNDYRTL RQGIIDMVLATEMTKHFEH
VNKFVNSINKPLATLEENGETDKNQEVINTMLRTPENRTL IKRMLIKCADVSNPCRPLQYCIWAARISE
EYFSQTDEEKQQLPVVMPVFDNRNCSIPKSI SFIDYF ITDMFDAWDAFV DLPDLMQHLDNNFKYWKGL
DEMKLRLRPPPE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_173454

ORF Size: 2349 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_173454.1](#), [NP_775656.1](#)

RefSeq Size: 3793 bp

RefSeq ORF: 2352 bp

Locus ID: 5151

UniProt ID: [O60658](#)

Cytogenetics: 15q25.3

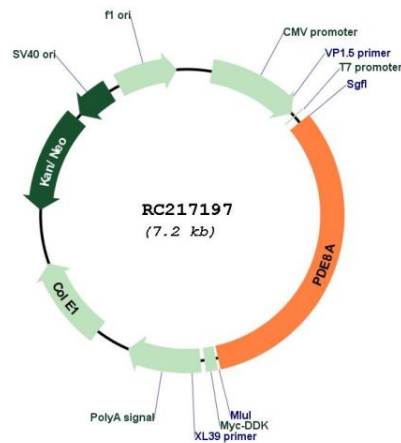
Protein Families: Druggable Genome

Protein Pathways: Progesterone-mediated oocyte maturation, Purine metabolism

MW: 88.1 kDa

Gene Summary: The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE8 subfamily. This PDE hydrolyzes the second messenger, cAMP, which is a regulator and mediator of a number of cellular responses to extracellular signals. Thus, by regulating the cellular concentration of cAMP, this protein plays a key role in many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jul 2011]

Product images:



Circular map for RC217197