

Product datasheet for **RC234226**

PDE7A (NM_001242318) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE7A (NM_001242318) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDE7A
Synonyms:	HCP1; PDE7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234226 representing NM_001242318
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGTGTGTTACCAGCTGCCGTA**CTGCCCTGGACAGGCCGGTCCCCAGCACGTCCTCAGCCGCC**
 GAGGAGCCATCAGCTT**CAGCTCCAGCTCCGCTCTCTTCGGCTGCCCAATCCCCGGCAGCTCTCAGAG**
 CGGTGGAGCTATTTCTATGACAGTTCTGATCAGACTGCATTATACATT**CGTATGCTAGGAGATGTACGT**
 GTAAGGAGCCGAGCAGGATTTGAATCAGAAAGAAGAGGTTCTCACCCATATATTGATTTTCGATTTTCC
 ACTCTCAATCTGAAATTGAAGTGTCTGTCTCTGCAAGGAATATCAGAAGGCTACTAAGTTTCCAGCGATA
 TCTTAGATCTTACGCTTTTTTCGTGGTACTGCGGTTTCAAATCCCTAAACATTTTAGATGATGATTAT
 AATGGACAAGCCAAGTGTATGCTGGAAAAAGTTGGAAATTTGATATCTTTCTATTTGATAGAC
 TAACAAATGGAATAGTCTAGTAAGCTTAACCTTT**CATTTATTTAGTCTTCATGGATTAATTGAGTACTT**
 CCATTTAGATATGATGAACTTCGTAGATTTTTAGTTATGATTCAAGAAGATTACCACAGTCAAAATCCT
 TACCATAACGCAGTCCACGCTGCGGATGTTACTCAGGCCATGCACTGTTACTTAAAGGAACCTAAGCTTG
 CCAATTCGTA**ACTCCTTGGGATATCTTCTGAGCTTAATTGCAGCTGCCACTCATGATCTGGATCATCC**
 AGGTGTTAATCAACCTTTCTTATTA**AACTAACCATTACTTGGCAACTTATAACAAGAACTACCTCAGTA**
 CTGGAAAATCACCAGTGGAGATCTGAGTGGGCTTATTGAGAGAAATCAGGCTTATTTCTCACATCTGCCAT
 TAGAAAGCAGGCAACAAATGGAGACACAGATAGGTGCTCTGATACTAGCCACAGACATCAGTCGCCAGAA
 TGAGTATCTGTCTTTGTTAGGTCCATTTGGATAGAGGTGATTTATGCCTAGAAGACACCAGACACAGA
 CATTGGTTTTACAGATGGCTTTGAAATGTCTGATATTTGTAACCCATGTCGGACGTGGGAATTAAGCA
 AGCAGTGGAGTAAAAAGTAACGGAGGAATCTTCCATCAAGGAGATATAGAAAAAAATATCATTGGG
 TGTGAGTCCACTTTGCGATCGTCACACTGAATCTATTGCCAACATCCAGATTGGTTTTATGACTTACCTA
 GTGGAGCCTTTATTTACAGAATGGGCCAGGTTTTCCAATACAAGGCTATCCAGACAATGCTTGGACAGC
 TGGGGCTGAATAAAGCCAGCTGGAAGGGACTGCAGAGAGAACAGTCGAGCAGTGAGGACACTGATGCTGC
 ATTTGAGTTGA**ACTCACAGTTATTACCTCAGGAAAATCGGTTATCA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234226 representing NM_001242318
 Red=Cloning site Green=Tags(s)
 MEVCYQLPVLPLDRPVPQHVL**SRRGAI**SFSSSSALFGCPNPRQL**SQRRGAI**SYDSSDQ**TALYIRMLGDVR**
 VRSRAGFESERRGSHPYIDFRIFHSQSEIEVSVSARNIRRL**SFQRYLRSSRFRGTAVSNSLNILDDDY**
 NGQAKCMLEKVGWVNFDFLFDRLTNGNSLVSLTFHLFSLHGLIEYFHL**DMMKLRRLVMIQEDYHSQNP**
 YHNAVHAADVTQAMHCYLKEPKLANSVTPWDILLSLIAAATHDL**DHPGVNQPF**LIKTNHYL**ATLYKNTSV**
 LENHHWRS**AVGLLRESGLF**SHLPLESRQ**QMETQIGALILATDISRQNEYL**SLFRSHLDRGD**CLEDTRHR**
 HLVLQ**MALKCADICN**PCRTWELSKQWSEK**VTEEFFHQGDIEKKYHLGVSPL**CDRH**TESIANIQIGFMTYL**
 VEPLFTEWARFSN**TRLSQ**TMLGHVGLNKASW**GLQREQSS**EDTDA**AFELNSQLLPQENRLS**

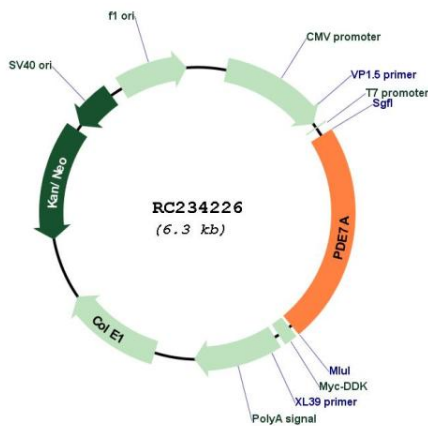
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cytogenetics:	8q13.1
Protein Families:	Druggable Genome
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism
MW:	56 kDa
Gene Summary:	The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE7 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 described for this gene. [provided by RefSeq, Jul 2011]

Product images:



Circular map for RC234226