

Product datasheet for **RG214749**

PDE7A (NM_002603) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE7A (NM_002603) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDE7A
Synonyms:	HCP1; PDE7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214749 representing NM_002603
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAATTACATTGATCTGGTGTCTGGCCTTGGTTCTTATCAAGTGGATCACCTCTAAGAGGCGTGGAG
 CTATTTCCCTATGACAGTTCTGATCAGACTGCATTATACATTTCGTATGCTAGGAGATGTACGTGTAAGGAG
 CCGAGCAGGATTTGAATCAGAAAGAAGAGGTTCTCACCCATATATTGATTTTCGATTTTCCACTCTCAA
 TCTGAAATTGAAGTGTCTGTCTCTGCAAGGAATATCAGAAGGCTACTAAGTTTCCAGCGATATCTTAGAT
 CTTACGCTTTTTTCGTGGTACTGCGGTTTCAAATCCCTAAACATTTTAGATGATGATTATAATGGACA
 AGCCAAGTGTATGCTGGAAAAAGTTGAAATTGGAATTTTGATATCTTTCTATTTGATAGACTAACAAT
 GGAATAGTCTAGTAAGCTAACCTTTCATTTATTTAGTCTTCATGGATTAATTGAGTACTTCCATTTAG
 ATATGATGAAACTTCGTAGATTTTATGTTATGATTCAAGAAGATTACCACAGTCAAAATCCTTACCATAA
 CGCAGTCCACGCTGCGGATGTTACTCAGGCCATGCACTGTACTTAAAGGAACCTAAGCTTGCCAATTCT
 GTAACCTCTGGGATATCTTGTGAGCTTAATTGAGCTGCCACTCATGATCTGGATCATCCAGGTGTTA
 ATCAACCTTTCCTTATTAATAAATAACCATTACTTGGCACTTTATACAAGAATACCTCAGTACTGGAAAA
 TCACCACTGGAGATCTGCACTGGGCTTATTGAGAGAATCAGGCTTATTCTCACATCTGCCATTAGAAAGC
 AGGCAACAAATGGAGACACAGATAGGTGCTCTGATACTAGCCACAGACATCAGTCGCCAGAATGAGTATC
 TGTCTTTGTTTAGGTCCCATTGGATAGAGGTGATTTATGCTTAGAAGACACCAGACACAGACATTTGGT
 TTTACAGATGGCTTTGAAATGTGCTGATTTTGTAAACCATGTCGGACGTGGGAATTAAGCAAGCAGTGG
 AGTGAAAAAGTAACGGAGGAATCTTCCATCAAGGAGATATAGAAAAAATATCATTGGGTGTGAGTC
 CACTTTGCGATCGTCACACTGAATCTATTGCCAACATCCAGATTGGTTTTATGACTTACCTAGTGGAGCC
 TTTATTTACAGAATGGGCCAGGTTTTCCAATAACAAGGCTATCCCAGACAATGCTTGGACAGTGGGGCTG
 AATAAAGCCAGCTGGAAGGGACTGCAGAGAGAACAGTCGAGCAGTGAGGACACTGATGCTGCATTTGAGT
 TGAACCTCACAGTTATTACCTCAGGAAAATCGGTTATCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214749 representing NM_002603
 Red=Cloning site Green=Tags(s)

MGITLIWCLALVLIKWITSKRRGAISYDSSDQTALYIRMLGDVVRVSRAGFESERRGSHPHYIDFRIFHSQ
 SEIEVSVSARNIRRLSFRYLRSRFRGTAVSNLNLDDDYNGQAKCMLKVGWVNFDFLFDRLTN
 GNSLVSLTFHLFSLHGLIEYFHLDMMLRRFLVMIQEDYHSQNPYHNAVHAADVTQAMHCYLKEPKLANS
 VTPWDILLSLIAAATHDLDPVGNQPFLLIKTNHYLATLYKNTSVLENHHWRSVAVGLLRESGLFSLPLES
 RQQMETQIGALILATDISRQNEYLSLFRSHLDRGDLCELDTRHRHLVLQALKCADICNPCTRWELSKQW
 SEKVTEEFFHQDIEKKYHLGVSPLCDRHTESIANIQIGFMTYLVEPLFTEWARFVNTRLSTQMLGHVGL
 NKASWKGLQREQSSEDDAAFELNSQLLPQENRLS

TRTRPLE - GFP Tag - V

Restriction Sites:

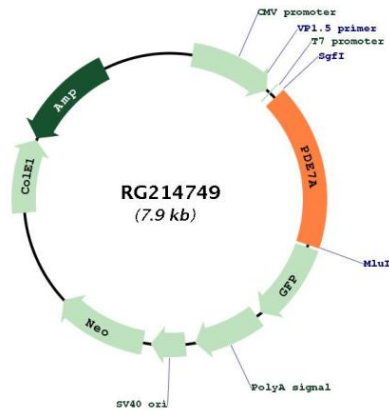
SgfI-MluI

Protein Families: Druggable Genome

Protein Pathways: Progesterone-mediated oocyte maturation, Purine metabolism

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 RG214749