

Product datasheet for SC313399

PDE7A (NM_002604) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE7A (NM_002604) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE7A
Synonyms:	HCP1; PDE7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_002604 edited TGGTACCTCAATGGAAGTGTGTTACCAGCTGCCGGTACTGCCCTGGACAGGCCGGTCCC CCAGCACGTCCCTCAGCCCGGAGGAGCCATCAGCTTCAGCTCCAGCTCCGCTCTCTCGG CTGCCCAATCCCGGCAGCTCTCTCAGAGGCGTGGAGCTATTTCTATGACAGTTCTGA TCAGACTGCATTATACATTTCGTATGCTAGGAGATGTACGTGTAAGGAGCCGAGCAGGATT TGAATCAGAAAGAAGAGGTTCTCACCCATATATTGATTTTCGATTTTCCACTCTCAATC TGAAATGGAAGTGTCTGTCTCTGCAAGGAATATCAGAAGGCTACTAAGTTTCCAGCGATA TCTTAGATCTTCACGCTTTTTTCGTGGTACTGCGGTTTCAAATCCCTAAACATTTTGA TGATGATTATAATGGACAAGCCAAGTGTATGCTGGAAAAAGTTGGAAATTTGA TATCTTTCTATTTGATAGACTAACAAATGGAAATAGTCTAGTAAGCTAACCTTTTCAATTT ATTTAGTCTTCATGGATTAATTGAGTACTTCCATTTAGATATGATGAAACTTCGTAGATT TTTAGTTATGATTCAAGAAGATTACCACAGTCAAATCCTTACCATAACGCAGTCCACGC TGCGGATGTTACTCAGGCCATGCACTGTTACTTAAAGGAACCTAAGCTTGCCAATTTCTGT AACTCCTTGGGATATCTTGCTGAGCTTAATTGCAGCTGCCACTCATGATCTGGATCATCC AGGTGTTAATCAACCTTTCTTATTAATAAATAACCATTACTTGGCAACTTTATACAAGAA TACCTCAGTACTGGAAAATCACCCTGGAGATCTGCAGTGGGCTTATTGAGAGAAATCAGG CTTATTCTCACATCTGCCATTAGAAAGCAGGCAACAAATGGAGACACAGATAGGTGCTCT GATACTAGCCACAGACATCAGTCGCCAGAATGAGTATCTGTCTTTGTTTAGTCCCATT GGATAGAGGTGATTTATGCCTAGAAGACACCAGACACAGACATTTGGTTTTACAGATGGC TTTGAAATGTGCTGATATTTGTAACCCATGTCGGACGTGGGAATTAAGCAAGCAGTGGAG TGAAAAAGTAACGGAGGAATTCTTCCATCAAGGAGATATAGAAAAAATATCATTTGGG TGTGAGTCCACTTTGCGATCGTCACACTGAATCTATTGCCAACATCCAGATTGGTAACTA TACATATTTAGATATAGCTGGTTAG
Restriction Sites:	Please inquire
ACCN:	NM_002604



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Insert Size:	1300 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_002604.1.
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:	<ol style="list-style-type: none">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_002604.1 , NP_002595.1
RefSeq Size:	2990 bp
RefSeq ORF:	1275 bp
Locus ID:	5150
Cytogenetics:	8q13.1
Domains:	PDEase, HDc
Protein Families:	Druggable Genome
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2, also called PDE7A3) differs in the 5' and 3' UTRs and in the 5' and 3' coding sequences compared to variant 1. The resulting isoform (b) has distinct N- and C-termini compared to isoform a.</p>