

Product datasheet for **SC332038**

PDE2A (NM_001243784) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE2A (NM_001243784) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE2A
Synonyms:	CGS-PDE; cGSPDE; PDE2A1; PED2A4
Vector:	pCMV6-Entry (PS100001)



[View online »](#)

Fully Sequenced ORF: >SC332038 representing NM_001243784.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGCGCCGACAGCCTGCAGCCAGCCTGGACCCCTTGCAAAGGAGCCAGGACCCCGAGGGAGTAGAGAC
GACCGACTGGAGGACGCCTTGTGAGTCTGGGCTCTGTTCATCGACATTTTCAGGCTGCAACGTGCTGTC
AAGGAGGCCCTGTGAGTGTGCTCCCGGAGTGGAACTGTCTACACCTACCTACTGGATGGTGGATCC
CAGCTGGTGTGAGGACCCCCACATGAGCTGCCAGGAGGGGAAAGTCCGGGAGGCTATCATCTCC
CAGAAGCCGGCTGGGCTGCAATGGGCTGGGCTTCTCAGACCTGCCAGGGAAGCCCTTGGCCAGGCTGGTG
GCTCCACTGGCTCCTGATACCCAAGTGCTGGTTCATGCCGCTAGCGGACAAGGAGGCTGGGCGCTGGCA
GCTGTTCATCTTGGTGCAGTGTGGCCAGCTGAGTGATAATGAGGAATGGAGCCTGCAGGCGGTGGAGAAG
CATACCTGGTCGCCCTGCGGAGGGTGCAGGCTCTGCAGCAGCGCGGGCCAGGGAGGCTCCCGAGCC
GTCCAGAACCCCGGAGGGGACGGCGGAAGACCAGAAGGGCGGGGCGGCGTACACCGACCGCGACCCGC
AAGATCCTCCAAGTGTGCGGGAACTCTACGACCTGGATGCTCTTCCCTGCAGCTCAAAGTGTCCAA
TACCTGCAGCAGGAGACCCGGGCATCCCGTGTGCTCCTGCTGGTGTGCGGAGGACAATCTCCAGCTT
TCTTGCAAGTTCATCGGAGACAAAGTGTGCTCGGGGAAGAGGTGAGCTTTCCCTTGACAGGATGCTGGGC
CAGGTGGTGGAAAGACAAGAAGTCCATCCAGCTGAAGGACCTCACCTCCGAGGATGTACAACAGCTGCAG
AGCATGTTGGGCTGTGAGCTGCAGGCCATGCTCTGTGTCCTGTTCATCAGCCGGGCCACTGACCAGGTG
GTGGCCTTGGCCTGCGCCTTCAACAAGTAGAAGGAGACTTGTTCACCGACGAGGACGAGCATGTGATC
CAGCACTGCTTCCACTACACCAGCACCGTGTCTCACCAGCACCTGGCCTTCCAGAAGGAACAGAACTC
AAGTGTGAGTGCCAGGCTCTTCTCAAGTGGCAAAGAACCTTTCACCCACCTGGATGACGTCTCTGTG
CTGCTCCAGGAGATCATCAGGAGGCCAGAACTCAGCAACGCAGAGATCTGCTCTGTGTTCTCTGCTG
GATCAGAATGAGTGGTGGCCAAGGTGTCGACGGGGCGTGGTGGATGATGAGAGCTATGAGATCCGC
ATCCCGCCGATCAGGGCATCGCGGGACACGTGGCGACCACGGCCAGATCCTGAACATCCCTGACGCA
TATGCCCATCCGCTTTTCTACCGCGCGTGGACGACAGCACCGGCTTCCGACCGCGCAACATCCTCTGC
TTCCCATCAAGAACGAGAACCAGGAGGTTCATCGGTGTGGCCGAGCTGGTGAACAAGATCAATGGGCCA
TGGTTCAGCAAGTTCGACGAGGACCTGGCGACGGCCTTCTCCATCTACTGCGGCATCAGCATCGCCCAT
TCTCTCTATACAAAAAGTGAATGAGGCTCAGTATCGCAGCCACCTGGCCAATGAGATGATGATGATGAC
CACATGAAGGTCTCCGATGATGAGTATACCAAATCTCCATGATGGGATCCAGCCTGTGGCTGCCATT
GACTCAAATTTGCAAGTTTACCTATACCCCTCGTTCCTGCCCCGAGGATGACACGTCCATGGCCATC
CTGAGCATGCTGCAGGACATGAATTTCAACAACACTACAAAATTGACTGCCCGACCTGGCCCGGTTT
TGTTTGTGGTGAAGAAGGGCTACCGGGATCCCCCTACCACAACCTGGATGCACGCTTTTCTGTCTCC
CACTTCTGCTACCTGCTTACAAGAACCTGGAGCTCACCAACTACCTCGAGGACATCGAGATCTTTGCC
TTGTTTATTTCTGCATGTGTCATGACCTGGACCACAGAGGCACAAACAACCTTTTCCAGGTGGCCTCG
AAATCTGTGCTGGCTGCGCTCTACAGCTCTGAGGGCTCCGTCTGAGAGGACCACTTTGCTCAGGCC
ATCGCCATCCTCAACACCACGGCTGCAACATCTTTGATCATTCTCCCGGAAGGACTATCAGCGCATG
CTGGATCTGATGCGGGACATCATTTGGCCACAGACCTGGCCACCATCTCCGCATCTTCAAGGACCTC
CAGAAGATGGCTGAGGTGGGCTACGACCGAAACAACAAGCAGCACCACAGACTTCTCCTGTGCTCCTC
ATGACCTCCTGTGACCTCTGTACCAGACCAAGGGCTGGAAGACTACGAGAAAGATCGCGGAGCTGATC
TACAAAGAATTTCTCCAGGGAGACCTGGAGAAGGCCATGGGCAACAGGCCGATGGAGATGATGGAC
CGGGAGAAGGCCTATATCCCTGAGCTGCAAATCAGCTTTCATGGAGCACATTGCAATGCCCATCTACAAG
CTGTTGACGACCTGTTCCCAAAGCGGACAGCTGTACGAGCGCGTGGCCTCCAACCGTGAACACTGG
ACCAAGGTGTCCCAAGTTTACCATCCGCGGCCTCCCAAGTAACAACCTCGCTGGACTTCTGGATGAG
GAGTACGAGGTGCTGATCTGGATGGCACTAGGGCCCCATCAATGGCTGCTGCAGCCTTGTGCTGAG
TGA
  
```

Restriction Sites: SgfI-MluI
ACCN: NM_001243784
Insert Size: 2763 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).
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_001243784.1
RefSeq Size:	4208 bp
RefSeq ORF:	2763 bp
Locus ID:	5138
UniProt ID:	O00408
Cytogenetics:	11q13.4
Protein Families:	Druggable Genome
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism
MW:	103.5 kDa
Gene Summary:	<p>Cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes. Plays an important role in growth and invasion of malignant melanoma cells (e.g. pseudomyxoma peritonei (PMP) cell line) (PubMed:24705027).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and uses an alternate start codon, compared to variant 1. The encoded isoform (PDE2A1) is shorter and has a distinct N-terminus, compared to isoform 1. This variant (2) is assembled from partial human transcripts. The full-length exon combination is inferred from the mouse ortholog (NM_001243757.1, see PMID: 19632989). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>