

Product datasheet for **SC326233**

PDE10A (NM_001130690) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE10A (NM_001130690) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE10A
Synonyms:	ADSD2; HSPDE10A; IOLOD; LINC00473; PDE10A19
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001130690, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGATGGACCTTCTAATAATGCGAGCTGCTTCCGAAGGCTGACCGAGTGCTTCTGAGCCCCAGTT
TGACAGATGAAAAAGTGAAGGCATATCTTCTCTTCAACCCAGGTATTAGATGAATTTGTATCTGAAAG
TGTTAGTGCAGAGACAGTAGAGAAATGGCTGAAGAGGAAGAACAACAATCAGAAGATGAATCAGCTCCT
AAGGAAGTCAGCAGGTACCAAGATACGAATATGCAGGGAGTTGTATATGAACTAAACAGCTATATAGAAC
AACGGTTGGACACAGGAGGAGACAACCAGCTACTCCTCTATGAACTGAGCAGCATCATAAAATAGCCAC
AAAAGCCGATGGATTTGCACTGTATTTCTTGGAGAGTGAATAATAGCCTGTGTATATTACGCCACCT
GGGATAAAGGAAGGAAAACCCCGCTCATCCCTGCTGGGCCATCACTCAGGGCACCACCGTCTCTGCTT
ATGTGGCCAAAGTCCAGGAAAACACTGCTAGTAGAAGACATCCTTGGAGATGAACGATTTCCAAGAGGTAC
TGGACTGGAATCAGGGACTCGTATCCAGTCTGTTCTTTGCTTACCAATTGCACTGCAATTGGTGACTTG
ATTGGTATTCTCGAGCTGTATCGGCACTGGGGCAAAGAAGCCTTCTGTCTTAGTCACCAGGAGGTTGCAA
CAGCAAATCTTGCCTGGGCTTCAGTAGCAATACATCAGGTGCAGGTATGCAGAGGCCTTGCCAAACAGAC
AGAATTGAATGACTTCTACTCGACGTATCAAAAACATATTTTGATAACATAGTTGCAATAGATTCTCTA
CTTGAACACATAATGATATATGCAAAAAACCTGGTGAATGCCGATCGTTGTGCGCTTTTCCAGGTGGACC
ATAAGAACAAGGAGTTATATTGACACCTTTTTGATATTGGAGAGGAAAAGGAAGGAAAACCTGTCTTCAA
GAAGACCAAAGAGATAAGATTTTCAATTGAGAAAGGAATTGCTGGCCAAGTAGCAAGAACAGGGGAAGTC
CTGAACATTCCAGATGCCTATGCAGACCCACGCTTTAACAGAGAAGTAGACTTGTACACAGGCTACACCA
CGCGGAACATCCTGTGCATGCCATCGTCAGCCGAGGCAGCGTGATAGGTGTGGTGACAGATGGTCAACAA
AATCAGTGGCAGTGCCTTCTCTAAAACAGATGAAAACAACCTTCAAATGTTTGCCGTCTTTGTGCTTTA
GCCTTACACTGTGCTAATATGTATCATAGAAATCGCCACTCAGAGTGCATTTACCGGGTAAACGATGGAAA
AGCTGTCTACCATAGCATTGTACTTCAGAAGAGTGGCAAGGTCTCATGCAATTCACCCTTCCCCTGCG
TCTCTGCAAGAAATGAATTATTCCACTTTGACATTGGTCTTTTGAACATGTGGCCTGGAATTTTT
GTCTACATGGTTCATCGGTCTGTGGGACATCCTGCTTTGAGCTTGAAGGTTGTGTCGTTTTATTATGT
CTGTGAAGAAGAACTATCGGCGGGTTCCTTATCACAACCTGGAAGCATGCGGTCACTGTAGCACACTGCAT
GTATGCCATACTTCAGAACAAATCACACGCTTTTACAGACCTTGAGCGCAAAGGACTGCTGATTGCGTGT
CTGTGTCATGACCTGGACCACAGGGGCTTCAGTAACAGCTACCTGCAGAAGTTCGACCACCCTCTGGCCG
CTCTCTACTCCACTTCCACCATGGAGCAGCACCCTTCTCCAGACTGTGTCCATCCTCCAGTTGGAAGG
GCACAATATCTTCTCCACTCTGAGCTCCAGTGAATATGAGCAGGTGCTTGAGATCATCCGCAAAGCCATC
ATTGCCACAGACCTTGCTTTATACTTTGAAAACAGGAAGCAGTTGGAAGAGATGTACCAGACCGGATCAC
TAAACCTTAATAATCAATCACATAGAGACCGTGAATTGGTTTGTATGACTGCCTGTGACCTTTGTTC
TGTGACAAAACCTGTGGCCGTTACAAAATTGACGGCAAATGATATATATGCAGAATTCTGGGCTGAGGGT
GATGAAATGAAGAAATTTGGGAATACAGCCTATTCTATGATGGACAGAGACAAGAAGGATGAAGTCCCCC
AAGGCCAGCTTGGGTTCTACAATGCCGTGGCCATTCCCTGCTATACAACCTTACCCAGATCCTCCCTCC
CACGGAGCCTCTTCTGAAAGCATGCAGGGATAATCTCAGTCAGTGGGAGAAGGTGATTGAGGGGAGGAG
ACTGCAACCTGGATTTTATCCCCATCCGTGGCTCAGAAGGCAGCTGCATCTGAAGATTGA
    
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Restriction Sites: Please inquire
ACCN: NM_001130690
Insert Size: 2600 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001130690.1](#), [NP_001124162.1](#)

RefSeq Size: 8207 bp

RefSeq ORF: 2370 bp

Locus ID: 10846

UniProt ID: [Q9Y233](#)

Cytogenetics: 6q27

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 family. It plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This protein can hydrolyze both cAMP and cGMP to the corresponding nucleoside 5' monophosphate, but has higher affinity for cAMP, and is more efficient with cAMP as substrate. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Dec 2011]

Transcript Variant: This variant (1) encodes the longer isoform (1). 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.