

Product datasheet for **SC115943**

PDE10A (NM_006661) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE10A (NM_006661) 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:

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>OriGene sequence for NM_001130690 edited
ACTCCGCGCGTCCCCAGGGCGCCAGCTTCGCCCTCGCCGCCGCGCGCTGCTCTTC
GGCTCCGACATGGAAGATGGACCTTCTAATAATGCGAGCTGCTCCGAAGGCTGACCGAG
TGCTTCTGAGCCCCAGTTTGACAGATGAAAAAGTGAAGGCATATCTTCTTTACCCC
CAGGTATTAGATGAATTTGTATCTGAAAGTGTAGTGCAGAGACAGTAGAGAAATGGCTG
AAGAGGAAGAACAACAAATCAGAAGATGAATCAGCTCCTAAGGAAGTCAGCAGGTACCAA
GATACGAATATGCAGGGAGTTGTATGAACATAACAGCTATATAGAACAACGGTTGGAC
ACAGGAGGAGACAACCAGCTACTCCTCTATGAACTGAGCAGCATATTAATAATAGCCACA
AAAGCCGATGGATTTGCACTGTATTTCTTGGAGAGTGCAATAATAGCCTGTGTATATTC
ACGCCACCTGGGATAAAGGAAGGAAAACCCCGCCTCATCCCTGCTGGGCCATCACTCAG
GGCACCACCGTCTCTGCTTATGTGGCAAGTCCAGGAAAACACTGCTAGTAGAAGACATC
CTTGGAGATGAACGATTTCCAAGAGGTAAGTGGACTGGAATCAGGGACTCGTATCCAGTCT
GTTCTTTGCTTACCAATTGCACTGCAATTGGTGACTTGATTGGTATTCTCGAGCTGTAT
CGGCACGGGGCAAAGAAGCCTTCTGTCTTAGTACCAGGAGGTTGCAACAGCAAATCTT
GCCTGGGCTTCAGTAGCAATACATCAGGTGCAGGTATGCAGAGGCCTTGCCAAACAGACA
GAATTGAATGACTTCCTACTCGACGTATCAAAAACATATTTTGATAACATAGTTGCAATA
GATTCTCTACTTGAACACATAATGATATATGCAAAAAACCTGGTGAATGCCGATCGTTGT
GCGCTTTTCCAGGTGGACCATAAGAACAAGGAGTTATATTCAGACCTTTTGGATTTGGA
GAGGAAAAGGAAGGAAAACCTGTCTTCAAGAAGACCAAAGAGATAAGATTTTCAATTGAG
AAAGGAATTGCTGGCCAAGTAGCAAGAACAGGGGAAGTCTGAACATTCAGATGCCTAT
GCAGACCCACGCTTAAACAGAGAAGTAGACTTGTACACAGGCTACACCACGGGAACATC
CTGTGCATGCCCATCGTCAGCCGAGGACGCGTATAGGTGTGGTGCAGATGGTCAACAAA
ATCAGTGGCAGTGCCTTCTCTAAAACAGATGAAAACAACCTTCAAAATGTTTGCCGCTTT
TGTGCTTTAGCCTTACACTGTGCTAATATGTATCATAGAATTCCGCACTCAGAGTGCATT
TACCGGGTAACGATGGAAGAGTGTCTACCATAGCATTGTACTTCAGAAGAGTGGCAA
GGTCTCATGCAATTCACCCTTCCCGTGCCTCTGCAAAGAAATTGAATTATTCACCTTT
GACATTGGTCTTTTAAAACATGTGGCCTGGAATTTTGTCTACATGGTTCATCGGTCC
TGTGGGACATCCTGCTTTGAGCTTGAAGAGTGTGTGTTTTATTATGTCTGTGAAGAAG
AACTATCGGCGGGTTCCTTATCACAACGGAAGCATGCGGTCACTGTAGCACACTGCATG
TATGCCATACTTCAGAACAATCACACGCTTTTACAGACCTTGAGCGCAAAGGACTGCTG
ATTGCGTGTCTGTGTATGACCTGGACCACAGGGGCTTCAGTAACAGCTACCTGCAGAAG
TTGACCACCCTTGGCCGCTCTCTACTCCAATTCACCATGGAGCAGCACCCTTCTCC
CAGACTGTGTCCATCCTCCAGTTGGAAGGGCACAATATCTTCTCCAATCTGAGCTCCAGT
GAATATGAGCAGGTGCTTGAGATCATCCGCAAAGCCATCATTGCCACAGACCTTGCTTTA
TACTTTGGAAACAGGAAGCAGTTGGAAGAGATGTACCAGACCGGATCACTAAACCTTAAT
AATCAATCACATAGAGACCGTGAATTGGTTTGTATGATGACTGCCTGTGACCTTTGTTCT
GTGACAAAACGTGGCCCGTTACAAAATTGACGGCAAATGATATATATGCAGAATTCTGG
GCTGAGGGTGTGAAATGAAGAAATTGGGAATACAGCCTATTCCTATGATGGACAGAGAC
AGAAGGATGAAGTCCCCAAGGCCAGCTTGGGTTCTACAATGCCGTGGCCATTCCTGC
TATACAACCTTACCCAGATCCTCCCTCCACGGAGCCTTCTGAAAGCATGCAGGGAT
AATCTCAGTCAGTGGGAGAAGGTGATTGAGGGGAGGAGACTGCAACCTGGATTTTCATCC
CCATCCGTGGCTCAGAAGGCAGCTGCATCTGAAGATTGAGCACTGGTCACCCTGACACGC
TGTCCACCTACAGATCCTCATCTTGTCTTTGACATCTTTTCTTTTGGGGGG
GTGGGGGGAACCTGCACCT
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006661 unedited
 NGGGGTTCACATTTGTATACGACTACTATAGGCGGCCGGAATTCGCACGAGGCAGCTC
 CCTTGAGCGTCCCCACCAGCAGTAGTCACCGCGGCGGCGGTGGCAGCGGCGGCGGGCGGC
 GGCGGCTCTTCTCTCGCTGCGCTCCAGGGCTTGTCTTCCAGCCCGTCCCGTCCCC
 GGCCGCGCGCCGCCCGCCGGCTCCCCCTTGGCCAGGCCGCCCGCCGCGGGCTCCCCG
 GCTTCCCCGCGCGGCCAGGCCGGCGGCCAAACTCCGCGGCGTCCCAGGGCGCCA
 CTAAATAATGCGAGCTGCTTCCGAAGGCTGACCGAGTGTTCCTGAGCCCCAGTTTGACAG
 ATGAAAAAGTGAAGGCATATCTTCTTCCACCCAGGTATTAGATGAATTTGTATCTG
 AAAGTGTAGTGCAGAGACAGTAGAGAAATGGCTGAAGAGGAAGAACAACAAATCAGAAG
 ATGAATCAGCTCCTAAGGAAGTCAGCAGGTACCAAGATACGAATATGCAGGGAGTTGTAT
 ATGAACTAAACAGCTATATAGAACAACGGTTGGACACAGGAGGAGACAACCAGCTACTCC
 TCTATGAACTGAGCAGCATCATTAAATAGCCACAAAAGCCGATGGATTTGCACTGTATT
 TCCTTGGAGAGTGAATAATAGCCTGTGTATATTACGCCACCTGNGATAAAGGAAGGAA
 AACCCCGNCTCATCCCTGCTGGGCCCATCACTCAGGGCACCACCGTCTCTGCTTATGTGG
 CCAAGTCCAGGAAACACTGCTAGTAGAAGACTCCTTGGAGATGACGATTNCCAAGAGTAC
 TGGACTGGATCAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006661 unedited
 TAATGGACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTATTTTGTCT
 TTATGCAAAGGGTTCAGTAAAAGTCCAAACAAACAACAAAAACAATTTAAAAACTGAC
 ATCTTTTGAAGTCTACTTGAAGTCTGAGATTTATTGTAACATATACCTCATCTCTTCT
 CAAAAAGACAGGAAGTCTACTTCGTCTAGTGTTAAATTTATTGATCTCAGCCCTTAGGT
 TGAACCTAAAGAATTATGTTTAGTCTAACTAAATTCATGAAGCTCTGAAATAAGAGTTTG
 ACGTTTTGCCATCTTCTACTCTGTAACCTCAACGACATTTGTCTGAGGCTGTGGAC
 TACAACCTCAAGTTAATTACAAGTAGGTCATACATGAACATTCACCATTACAATAGTAAT
 GTGTAAAAATTCATTTATATCCAACAACATCAAAGCAACATTGATGTTAAAGCCCAAG
 TACAATACCATAATAGTACCATTTAAACCCTTATTAGAAAGATACAATGGAAAAGTACC
 CCTTCTGGATAATTTTGTCCATTTCTTTAAGGCCTCAGCAATATTAGCCTATTAGAAA
 AGGCTGGTTTGAAGTCAAATGGAGTCACTTGGCCAGCTGATTTCTGAACGTGGGGGTGG
 TCCTGGTTGCTCAGTGTCTATGATGCCTCACAGAAGAGATTGGCAGGAAGTCCCTGCTT
 GACTTATTTATTTGATGGTACCTTCTTGAAGAGGTTTGCACCCAGTTACCAGGTGCANG
 TTCCCCCACCACCCCAAAAAAAGGAAAAAATGNTCAAAGCCAGATGAGGATCTCGTA
 GTGGGACAGCGTCAAGGTGACCAGTGTCAATCTTCAGATGCAGCTGCCCTCTGAGCC
 CCGNATGGGGATGAAAATCCAGTTGCAGGCTCCTCCCTCCAAAAACCTTTTCCCCTGAC
 TGAGATATTACCTGCATGCGTTCAAAGAGGCC

Restriction Sites:

NotI-NotI

ACCN:

NM_006661

Insert Size:

2600 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_006661.1 , NP_006652.1
RefSeq Size:	4576 bp
RefSeq ORF:	2340 bp
Locus ID:	10846
UniProt ID:	Q9Y233
Cytogenetics:	6q27
Domains:	PDEase, GAF
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 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]</p> <p>Transcript Variant: This variant (2) has an additional exon in the 5' region, which includes an in-frame AUG start codon, as compared to variant 1. The resulting isoform (2) has an alternate and shorter N-terminus, as compared to 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.</p>