

Product datasheet for **SC102646**

PDE12 (AK055769) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE12 (AK055769) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK055769, the custom clone sequence may differ by one or more nucleotides

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CAAACATATCACTTGTGTCCATTTTAACTTTCTCTAACATACCCTAACTTCTTCTTAAAAATGCTT
AATTTTCTCTGTTTTGAGATGTAATTTGCTATCCTGTTTTCTTAAACTTGGTAAGATCTTCAGCCAT
GAAGGACAGACAACTGTAACCTTTCCATTTACAAAGCTGCATTTGAATTCAACTGTCCTTTTAACTAA
GGAGTTTTACTGGTCTCGTGGCTAAAAATTTAAAGATGTAGGCCAGGTGCAGTGGCTCATGCCTGTAATC
CTATCACTTTTGGAGACCAAGGCGGGATGGATCACCTGAGGTCAGGAGTTCAAGACCAGCTGGCCAAC
ATGATGAACTCCATCTCTGCTGAAAAACAAAAATTAGTCAGGCATGGTGGCACACACCTGTGGTCCCA
GCTACTCGGGAGGCTGAGGCAAGAGAATGGCTTGGGCCGGGCGACGGAAGTTGCAGTGAGGCGAGATTG
CACCATTGCACCTCAGCCTGGGCAATAAGAGTGAACTCTGTCTCAAAAAAGAAAAATGATATAAAGT
ATTTATTTGTGTTTATTTTATGGATACGTGTCTATGTTTATAGATTGCCTGTATGGTACCAACTTGAC
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TGAATGGACATAGAAAAATTGAGGAAAGAAATAAAACCGTAACAATTATAAGAGGTTATAAAAGGTTTCATG
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CCAGCTACTTGGGGGACTGAGATGGGAAAATTGCTTGAGCCCGGAGTCAAAGGTTGCAGTAAGCCAAGA
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CTGTTTTTATTATGTCTTTTGTGTTTGGAAAATGAATCTCCCTCTGTCAAAGAGTAAAAATTTTGC
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AATGTTTTCGACCTCAAGCTAATTTTGGGCATTAAAGCCCTTGGAAGTCCAAATAGGGCCCTGGAAGT
CCAAAAGAAACATATTAGGCTAATTTGGTATATTAATATACAGGAAGCTGATCAATAAAAAATGTT
GTTTAATTTTCTTTGAGTTGATTTGTATAAATCTGTTATTAATATGCATCCCAAAATTTGATCATATTG
CTAAAATGTTGATAGATCTTGTTATATGTTATTGGTAATAATTGTTATCCTGTTAAATTATTGTATACCA
CAGAAATAATGAAATTTCTTTGTCAATTGCATCAGTAATCATGGCTCTTCTAAGTCTTTTGTCAATCACA
GATGATTATTGTTTTACTTGGATTCTTTTCAAAAGTGGTTGTAATTGGCTACAGCCTAAATCTGCTTG
TTC

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5' Read Nucleotide Sequence:

>OriGene 5' read for AK055769 unedited
AATACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGACCACTGTACTCCAGCCTG
GGCAACAGAGTGATCTCTCAAAAAAAAAAGAAAGAAAGAAAGAAAGAAAGAA
GCTTACAATCATGGTGGAAGGCGAAGAGGAGGAGCAGGCATATCATATGGCCAAAAAGGG
AGCAAGAGAAAGGTGAGAAAGACACTAGACTCTTTTAAACAGCTCTCACATGAGCTA
ATGGAATAAGAACTCACTCATTACCACAAGGACAGAACCCAGCCATTATGAGGGACCTG
CCACCATGACCCAAAAACCTCCTACTTGACCCAACTCCAACACTGGGGATAACATTTCA
ACATGAGATTTGAAGAGGACAAATACTCAAACATATCACTTGTTGTCCATTTTAAATCT
TTCTCTAACATACCCTAACTTCTTCTTGAATGCTTAATTTTCTCTGTTTGTAGATGTA
AATTTGTATCTGTTTTTCTTAAACTTGGTAAGATCTTCAGCCATGAAGGACAGACAA
ACTGTAACCTTTCCATTTACAAAGCTGCATTTGAATTCAACTGCTTTTAACTAAGGA
GTTTTACTGGTCTCGTGGCTAAAAATTTAAAGATGTANGCCAGGTGCAGTGGCTCATGCC
TGTAATCTATCACTTTTGTAGACCAANGCGNGATGGATCACCTGAGTCANGAGTTCA
AGACCAGCCTGGCCAACATGATGAACTCCATCTCTACTAAAAATACAAATANTCAGGC
ATGGTGGCACACCCCTGTATCCAGCTACTTCCGAAGGCTGAGGGCAGAAAATGCTTTG
ACCCCGCNCNACCGNAATTCANTGAGGCGAAATTGACCATTGCCCTCCAGCCTGGCAATA
GAAGTGAACCTTGCTCAAAAAAGAAAAATGATTAAGTATTATTTGGGTTTT

3' Read Nucleotide Sequence:

>OriGene 3' read for AK055769 unedited
GTTCTGCTATGGAACCGCGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTGAAC
AGCAGATTTTAGGCTGTAGCCAATTACAAACCACTTTTGAAGAATCCAAGTAAACAA
TAATCATCTGTGAATGACAAAAGACTTAGAAGAGCCATGATTACTGATGCAATTGACAAA
GAAATTTCAATTATTTCTGTGGTATACAATAATTTAACAGGATAACAATTATTACCAATAA
CATATAACAAGATCTATCAACATTTTAGCAATATGATACAATTTTGGGATGCATATTAAT
AACAGATTTATACAAATACAACCTCAAAGAAAAATTAACAACATTTTATTTGATCAGCT
TCCTGTATGATTTAATATACCAAAATAGCCTAATATGTTTCTTTGGACTTCCAGGGGC
CCTATTTGGACTTCCAAGGGCTTTAATGCCCAAAAGTTAGCTTGAGGTCGAAAACATTTA
AGTTAGAATTTTACATTTGATTTTGGAAAGTTGTCAAATATCAAAGTTTAAACACTT
GATCAAAAATAGATTACAGGTCACTGTAAGATAATAGTTATTCATTTAGCCAACTGATA
ATTCAAAAATTTCAAAAAGCAAAAATTTTACTCTTTGACAGAGGGGAGATTGAGTTTCC
AAACAATCNAAAGACATAATAAAAAACAGCATTAAATGGAATTTCTCTCTTATTACTAA
TATTTTTTGCAGTTTACTCAAAAGGTAAACAAAAATCTTTTACTATTTCTTATTAATGT
ATACAAAAATCTTGTTCAAAAGAGAAATCCAATTCTACTTTGTGCCCGTATTATAAAT
GCTAAAGCTAATTTAATAAAGCCTTATAACAGATCAATCCNATTGCCATTGGTTTCTTT
TCCTTTTTGTATNTTTGAGACGGGTCTCACA

Restriction Sites:

NotI-NotI

ACCN:

AK055769

Insert Size:

2500 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:	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:	<u>AK055769.1</u>
RefSeq Size:	2103 bp
RefSeq ORF:	2103 bp
Locus ID:	201626
Cytogenetics:	3p14.3
Gene Summary:	Enzyme that cleaves 2',5'-phosphodiester bond linking adenosines of the 5'-triphosphorylated oligoadenylates, triphosphorylated oligoadenylates referred as 2-5A modulates the 2-5A system. Degrades triphosphorylated 2-5A to produce AMP and ATP (PubMed:26055709). Also cleaves 3',5'-phosphodiester bond of oligoadenylates (PubMed:21666256, PubMed:30389976, PubMed:26055709). Plays a role as a negative regulator of the 2-5A system that is one of the major pathways for antiviral and antitumor functions induced by interferons (IFNs). Suppression of this enzyme increases cellular 2-5A levels and decreases viral replication in cultured small-airway epithelial cells and Hela cells (PubMed:26055709).[UniProtKB/Swiss-Prot Function]