

Product datasheet for **SC317133**

PDE4D (NM_001104631) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE4D (NM_001104631) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE4D
Synonyms:	ACRDYS2; DPDE3; HSPDE4D; PDE4DN2; PDE43; STRK1
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001104631, the custom clone sequence may differ by one or more nucleotides

```

ATGGAGGCAGAGGGCAGCAGCGCGCCGGCCCGGGCGGGCAGCGGAGAGGGCAGCGACAGC
GCCGGCGGGGCCACGCTCAAAGCCCCAAGCATCTCTGGAGGCACGAGCAGCACCACCAG
TACCCGCTCCGGCAGCCCCAGTTCGGCTCCTGCATCCCCATCACCACCTGCCCCCGCC
CCGCCACCCTCGCCCCAGCCCCAGCCCCAGTGTCCGCTACAGCCGCCCGCCCGCCCCC
CTGCCCGCCGCCCGCCCGCCCGGGGTGCCCGGGCCGCTACGCTCGAGCGGGGCC
ACCGGCCCGGTCCGGCATCGCGGCTACTCGGACACCGAGCGCTACCTGTACTGTCCGCCC
ATGGACCGCACCTCTACGCGGTGGAGACCGGCCACCGGCCCGGCTGAAGAAATCCAGG
ATGTCCTGGCCCTCCTCGTTCCAGGGACTCAGGCGTTTTGATGTGGACAATGGCACATCT
GCGGGACGGAGTCCCTTGGATCCCATGACCAGCCAGGATCCGGGCTAATTCTCCAAGCA
AATTTTGTCCACAGTCAACGACGGGAGTCTTCTGTATCGATCCGACAGCGATTATGAC
CTCTCTCAAAGTCTATGTCGGAACTCCTCATTGCCAGTGATATACACGGAGATGAC
TTGATTGTGACTCCATTTGCTCAGGTCTTGCCAGTCTGCGAACTGTACGAAACAATTT
GCTGCATTAATAATTTGCAAGATCGAGCACCTAGCAAAAGATCACCCATGTGCAACCAA
CCATCCATCAACAAGCCACCATAACAGAGGAGGCTACCAGAAACTGGCCAGCGAGACC
CTGGAGGAGCTGGACTGGTGTCTGGACCAGCTAGAGACCTACAGACCAGGCACTCCGTC
AGTGAGATGGCCCTCCAACAAGTTTAAAAGGATGCTTAATCGGGAGCTACCCCATCTCTCT
GAAATGAGTCGGTCTGGAATCAAGTGTGAGAGTTTATATCAAACACATTTCTTAGATAAG
CAACATGAAGTGGAAATTCCTTCTCCAACTCAGAAGGAAAAGGAGAAAAAGAAAAGACCA
ATGTCTCAGATCAGTGGAGTCAAGAAATGATGCACAGCTCTAGTCTGACTAATTAAGT
ATCCCAAGTTTGGAGTTAAAAGTGAACAAGAAGATGTCCTTGCCAAGGAACTAGAAGAT
GTGAACAATGGGGTCTTCATGTTTTTCAGAAATAGCAGAGTTGTCTGGTAACCGGCCCTTG
ACTGTTATCATGCACACCATTTTTTCAGGAACGGGATTTATTAACAACTTTAAAATTTCCA
GTAGATACTTTAATTACATATCTTATGACTCTCGAAGACCATTACCATGCTGATGTGGCC
TATCACAACAATATCCATGCTGCAGATGTTGTCCAGTCTACTCATGTGCTATTATCTACA
CCTGCTTTGGAGGCTGTGTTTACAGATTTGGAGATTTTGCAGCAATTTTTGCCAGTGCA
ATACATGATGTAGATCATCCTGGTGTGTCCAATCAATTTCTGATCAATACAACTCTGAA
CTTGCCTTGATGTACAATGATTCCTCAGTCTTAGAGAACCATCATTTGGCTGTGGCTTT
AAATTGCTTCAGGAAGAAAAGTGTGACATTTTCCAGAATTTGACCAAAAAACAAAGACAA
TCTTTAAGGAAAATGGTCATTGACATCGTACTTGCAACAGATATGTCAAACACATGAAT
CTACTGGCTGATTTGAAGACTATGGTTGAAACTAAGAAAGTGACAAGCTCTGGAGTTCTT
CTTCTTGATAATTATCCGATAGGATTCAGGTTCTTTCAGAAATATGGTGCCTGTGCGAGT
CTGAGCAACCCAAACAAAGCCTCTCCAGCTGTACCGCCAGTGGACGGACCGGATAATGGAG
GAGTTCTTCCGCCAAGGAGACCGGAGAGAGGGAACGTGGCATGGAGATAAGCCCCATGTGT
GACAAGCAATGCTTCCGTGGAAAAATCACAGGTGGGCTTCATAGACTATATTGTTTCAT
CCCCTCTGGGAGACATGGGCAGACCTCGTCCACCCTGACGCCAGGATATTTTGGACACT
TTGGAGGACAATCGTGAATGGTACCAGAGCACAAATCCCTCAGAGCCCCTCTCTGCACCT
GATGACCAGAGGAGGGCCCGCAGGGTCAAAGTGAAGAAATTCAGTTTGAACAACTTTA
GAGGAAGATGGTGAAGTACAGACACGGAAGGACAGTGGCAGTCAAGTGGAAAGAAGACACT
AGCTGCAGTGACTCCAAGACTCTTTGACTCAAGACTCAGAGTCTACTGAAATTTCCCTT
GATGAACAGGTTGAAGAGGAGGAGTAGGGGAAGAAGAGGAAAGCCAGCCTGAAGCCTGT
GTCATAGATGATCGTTCTCCTGACACG
    
```

Restriction Sites: Please inquire

ACCN: NM_001104631

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:	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:	<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:	<u>NM_001104631.1</u> , <u>NP_001098101.1</u>
RefSeq Size:	8240 bp
RefSeq ORF:	2430 bp
Locus ID:	5144
UniProt ID:	<u>Q08499</u>
Cytogenetics:	5q11.2-q12.1
Protein Families:	Druggable Genome
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism
Gene Summary:	<p>This gene encodes one of four mammalian counterparts to the fruit fly 'dunce' gene. The encoded protein has 3',5'-cyclic-AMP phosphodiesterase activity and degrades cAMP, which acts as a signal transduction molecule in multiple cell types. This gene uses different promoters to generate multiple alternatively spliced transcript variants that encode functional proteins.[provided by RefSeq, Sep 2009]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (PDE4D4, also known as isoform 1). Sequence Note: The sequence L20969.1 is from a chimeric clone. Only the region representing PDE4D was propagated into this RefSeq record. 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>