

Product datasheet for **RG231398**

PDE4D (NM_001197218) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE4D (NM_001197218) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDE4D
Synonyms:	ACRDYS2; DPDE3; HSPDE4D; PDE4DN2; PDE43; STRK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG231398 representing NM_001197218
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCAGCAGACAAGCCCGGACACTTTAACAGTACCTGAAGTGGATAATCCGCATTGTCCAAACCCGT
 GGCTGAACGAAGACCTTGTGAAATCCTTGCAGAGAAAACCTGTTGCAGCATGAGAAGTCCAAGACAGCGAG
 GAAATCGGTTTCTCCAAGCTCTCTCCAGTGATCTCTCCGAGAAAATCCCCAGGCTTCTGCGCAGAATG
 CTTCTCAGCAGCAACATCCCAACAGCGGCGTTTACGGTGGCACATACATGTTTTGATGTGGACAATG
 GCACATCTGCGGGACGGAGTCCCTTGGATCCCATGACCAGCCCAGGATCCGGGCTAATTCTCCAAGCAA
 TTTTGTCCACAGTCAACGACGGGAGTCTTCTGTATCGATCCGACAGCGATTATGACCTCTCTCCAAAG
 TCTATGTCCCGAACTCCTCCATTGCCAGTGATACACGGAGATGACTTGATTGTGACTCCATTGCTC
 AGGTCTTGGCCAGTCTGCGAACTGTACGAAACAACCTTTGTGCATTAACATAATTTGCAAGATCGAGCACC
 TAGCAAAAGATCACCCATGTGCAACCAACCATCCATCAACAAAGCCACCATAACAGAGGAGGCCTACCAG
 AAAGTGGCCAGCGAGACCTGGAGGAGCTGGACTGGTGTCTGGACCAGCTAGAGACCTACAGACCAGGC
 ACTCCGTCAGTGAGATGGCTCCAAAGTTTAAAGGATGCTTAATCGGGAGCTCACCCATCTCTCTGA
 AATGAGTCGGTCTGAAAATCAAGTGTGAGAGTTTATATCAAACACATTCTTAGATAAGCAACATGAAGTG
 GAAATTCCTTCTCCAACCTCAGAAGGAAAAGGAGAAAAAGAAAGACCAATGTCTCAGATCAGTGGAGTCA
 AGAAATGATGCACAGCTCTAGTCTGACTAATTCAGATATCCCAAGTGGAGTTTAAACTGAACAAGA
 AGATGTCTTGGCAAGGAACTAGAAGATGTGAACAATGGGGTCTTCATGTTTTGAGAATAGCAGAGTTG
 TCTGGTAACCGGCCCTTACTGTTATCATGCACACCATTTTTAGGAACGGGATTTATAAAAACATTTA
 AAATTCAGTAGATACTTTAATTACATATCTTATGACTCTCGAAGACCATTACCATGCTGATGTGGCCTA
 TCACAACAATATCCATGCTGCAGATGTTGTCCAGTCTACTCATGTGCTATTATCTACACCTGCTTTGGAG
 GCTGTGTTTACAGATTTGGAGATTCTTGCAGCAATTTTTGCCAGTGCAATACATGATGTAGATCATCCTG
 GTGTGTCCAATCAATTTCTGATCAATACAACTCTGAACCTGCCTTGATGTACAATGATTCTCAGTCTT
 AGAGAACCATCATTTGGCTGTGGGCTTTAAATTGCTTCAGGAAGAAAAGTGTGACATTTTCCAGAATTTG
 ACCAAAAACAAAGACAATCTTTAAGGAAAATGGTCATTGACATCGTACTTGCAACAGATATGTCAAAC
 ACATGAATCTACTGGCTGATTTGAAGACTATGGTTGAACTAAGAAAGTGACAAGCTCTGGAGTTCTTCT
 TCTTGATAATTATCCGATAGGATTCAGGTTCTCAGAATATGGTGCAGTGTGCAGATCTGAGCAACCCA
 ACAAGCCTCTCCAGCTGTACCCAGTGGACGGACCGGATAATGGAGGAGTTCTTCCGCCAAGGAGACC
 GAGAGAGGGAACGTGGCATGGAGATAAGCCCCATGTGTGACAAGCACAATGCTTCCGTGGAAAAATCACA
 GGTGGGCTTCATAGACTATATTGTTATCCCCTCTGGGAGACATGGGCAGACCTCGTCCACCCTGACGCC
 CAGGATATTTGGACACTTTGGAGGACAATCGTGAATGGTACCAGAGCACAATCCCTCAGAGCCCCTCTC
 CTGCACCTGATGACCCAGAGGAGGGCCGGCAGGGTCAAAGTGAAGAAATCCAGTTTGAACAACTTTAGA
 GGAAGATGGTGTGAGTCAGACACGGAAAAGGACAGTGGCAGTCAAGTGAAGAAGACACTAGCTGCAGTGAC
 TCCAAGACTCTTTGACTCAAGACTCAGAGTCTACTGAAATCCCTTGTGAACAGGTTGAAGAGGAGG
 CAGTAGGGGAAGAAGAGGAAAAGCCAGCCTGAAGCCTGTGTCATAGATGATCGTTCTCTGACACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231398 representing NM_001197218
Red=Cloning site Green=Tags(s)

```

MAQQTSPDRTLTVPEVDNPHCPNPWLNEDLVKSLRENLLQHEKSKTARKSVSPKLSPVISPRNSPRLRRM
LLSSNIPKQRRFVAHTCFDVDNGTSAGRSPLDPMTSPGSLILQANFVHSQRRESFLYRSDSDYDLSPK
SMSRNSSIASDIHGDDLIVTPFAQVLAASLRTVRNNFAALTNLQDRAPSKRSPMCNQPSINKATITEEAYQ
KLASETLEELDWCLDQLETLQTRHSVSEMASNFKRMLNRELTHLSEMSRSGNQVSEFISNTFLDKQHEV
EIPSPQTQKEKEKKRPMQISGVKMLMHSSSLTNSSIPRFGVKTEQEDVLAKELEDVKNWGLHVFRIAEI
SGNRPLTVIMHTIFQERDLLKTFKIPVDLITYLMTLEDHYHADVAYHNNIHAADVQSTHVLLSTPALE
AVFTDLEILAAIFASAIHDVDHPGVSQNFINTNSELALMYNDSSVLENHHLAVGFKLLQEENCDFQNL
TKKQRQSLRKMVIDIVLATDMSKHMNLLADLKTMYETKKVTSSGVLLLDNYSRIQVLQNMVHCADLSNP
TKPLQLYRQWTRIMEEFFRQGDREERERGMESPMCDKHNASVEKSQVGFIDYIVHPLWETWADLVHPDA
QDILDLTLEDNREWYQSTIPQSPSPAPDDPEEGRQGQTEKFQFELTLEEDGESDTEKDSGSQVEEDTSCSD
SKTLCTQDSESTEIPLDEQVEEEAVGEEESQPEACVIDDRSPDT
    
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001197218

ORF Size: 2235 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001197218.2](#)

RefSeq Size: 7979 bp

RefSeq ORF: 2238 bp

Locus ID: 5144

UniProt ID: [Q08499](#)

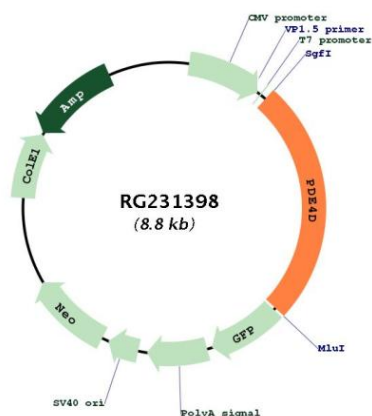
Cytogenetics: 5q11.2-q12.1

Protein Families: Druggable Genome

Protein Pathways: Progesterone-mediated oocyte maturation, Purine metabolism

Gene Summary: 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]

Product images:



Circular map for RG231398