

Product datasheet for **RG230849**

PDE4D (NM_001197223) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE4D (NM_001197223) 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)



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ORF Nucleotide Sequence:

>RG230849 representing NM_001197223
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTGAAGCAAACATTTACTGTCTGCTCTGGGGCTACATAAAGTTTAAAAGGATGCTTAATCGGG
 AGCTCACCATCTCTCTGAAATGAGTCGGTCTGGAAATCAAGTGTGAGAGTTTATATCAAACACATTCTT
 AGATAAGCAACATGAAGTGGAAATTCCTTCTCCAACCTCAGAAGGAAAAGGAGAAAAAGAAAGACCAATG
 TCTCAGATCAGTGGAGTCAAGAAATGATGCACAGCTCTAGTCTGACTAATCAAGTATCCCAAGGTTTG
 GAGTTAAACTGAACAAGAAGATGTCCTTGCCAAGGAACTAGAAGATGTGAACAAATGGGGTCTTCATGT
 TTTTCAAGATAGCAGAGTTGTCTGGTAACCGGCCCTTGACTGTTATCATGCACACCATTTTTTCAGGAACGG
 GATTTATAAAAACATTTAAAAATCCAGTAGATACTTTAATTACATATCTTATGACTCTCGAAGACCATT
 ACCATGCTGATGTGGCCTATCACAACAATATCCATGCTGCAGATGTTGTCCAGTCTACTCATGTGCTATT
 ATCTACACCTGCTTTGGAGGCTGTGTTTACAGATTTGGAGATTCTGCAGCAATTTTTGCCAGTGAATA
 CATGATGTAGATCATCCTGGTGTGTTCAATCAATTTCTGATCAATACAACTCTGAACTTGCCCTTGATGT
 ACAATGATTCTCAGTCTTAGAGAACCATCATTTGGCTGTGGGCTTTAAATTGCTTCAGGAAGAAAACCTG
 TGACATTTCCAGAAATTTGACCAAAAAACAAAGACAATCTTTAAGGAAAATGGTCATTGACATCGTACTT
 GCAACAGATATGTCAAAACATGAATCTACTGGCTGATTTGAAGACTATGGTTGAAACTAAGAAAGTGA
 CAAGCTCTGGAGTTCTTCTTCTTGATAATTATCCGATAGGATTCAGGTTCTTCAGAATATGGTGCAGT
 TGCAGATCTGAGCAACCAACAAAGCCTCTCCAACGTACCGCCAGTGGACGGACCGGATAATGGAGGAG
 TTCTTCGCCAAGGAGACCGAGAGAGGGAACGTGGCATGGAGATAAGCCCATGTGTGACAAGCACAAATG
 CTTCCGTGGAAAAATCACAGGTGGGCTTCATAGACTATATTGTTTATCCCCTCTGGGAGACATGGGCAGA
 CCTCGTCCACCCTGACGCCAGGATATTTTGGACACTTTGGAGGACAATCGTGAATGGTACCAGAGCACA
 ATCCCTCAGAGCCCTCTCCTGCACCTGATGACCCAGAGGAGGGCCGGCAGGGTCAAACCTGAGAAATTC
 AGTTTGAACAACTTTAGAGGAAGATGGTGTGAGTGCAGACACGAAAAGGACAGTGGCAGTCAAGTGGAGA
 AGACACTAGTGCAGTACTCCAAGACTCTTGTACTCAAGACTCAGAGTCTACTGAAATTTCCCTTGAT
 GAACAGGTTGAAGAGGAGGACAGTGGGGAAGAAGAGGAAAGCCAGCCTGAAGCCTGTGTCATAGATGATC
 GTTCTCCTGACACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230849 representing NM_001197223
 Red=Cloning site Green=Tags(s)

MPEANYLLSVSWGVIKFKRMLNRELTHLSEMSRSGNQVSEFISNTFLDKQHEVEIPSPTQKEKEKKRPM
 SQISGVKMLMHSSSLTNSIPRFGVKTEQEDVLAKELEDVKNKWLHVFRIAELSGNRPLTVIMHTIFQER
 DLLKTFKIPVDTLITYLMTLEDHYHADVAHYHNNIHAADVQSTHVLLSTPALEAVFTDLEILAAIFASAI
 HDVDHPGVFNQFLINTNSELALMYNDSSVLENHHLAVGFKLLQEENCDIFQNLTKQRQSLRKMVIDIVL
 ATDMSKHMNLLADLKTMTVETKKTSSGVLLLDNYSRIQVLQNMVHCADLSNPTKPLQLYRQWTDRIIMEE
 FFRQGDREERERGMESPMCDKHNASVEKSQVGFIDYIVHPLWETWADLVHPDAQDILDLEDNREWYQST
 IPQSPSPAPDDPEEGRQGQTEKQFELTLEEDGESDTEKDSGSQVEEDTSCSDSKTLCTQDSESTEIPLD
 EQVEEEAVGEEESQPEACVIDDRSPDT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_001197223
ORF Size:	1554 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:	<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_001197223.1 , NP_001184152.1
RefSeq Size:	7591 bp
RefSeq ORF:	1557 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]