

Product datasheet for **RG235566**

PDE6D (NM_001291018) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PDE6D (NM_001291018) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PDE6D
Synonyms: JBTS22; PDED
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235566 representing NM_001291018.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCAGCCAAGGACGAGCGGGCCAGGGAGATCCTGAGGGCTTCAAACAAATTGGATGAACCTTCGG
GATGCTGAGACAGGGAAGATACTCTGGCAAGGAACAGAAGACCTGTCTGTCCCTGGTGGAGCATGAA
GCCCGTGTCCCAAGAAAATCCTCAAGTCAAGGCAGTGTCTCGAGAACTTAATTTTTCTTCGACAGAA
CAAATGGAAAAATTCGCCTGGAACAAAAGTTTACTTCAAAGGCAATGCCTAGAAGTGGGAACGTTA
TCA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235566
Blue=ORF Red=Cloning site Green=Tag(s)

```
MSAKDERAREILRGFKLNWMNLRDAETGKILWQGTEDLSVPGVEHEARVPKILKCKAVSRELNFSSTE
QMEKFRLEQKVYFKGQCLEVGTLS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_001291018

ORF Size: 279 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).

RefSeq: [NM_001291018.1](#), [NP_001277947.1](#)

RefSeq Size: 1108 bp

RefSeq ORF: 282 bp

Locus ID: 5147

UniProt ID: [O43924](#)

Cytogenetics: 2q37.1

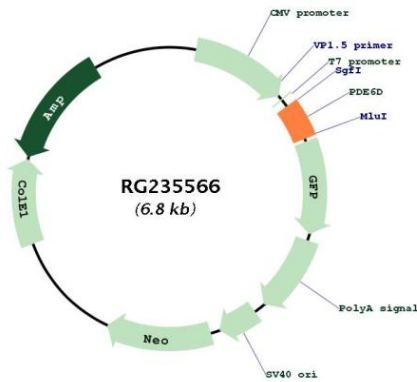
Protein Pathways: Progesterone-mediated oocyte maturation, Purine metabolism

MW: 10.8 kDa

Gene Summary:

This gene encodes the delta subunit of rod-specific photoreceptor phosphodiesterase (PDE), a key enzyme in the phototransduction cascade. A similar protein in cow functions in solubilizing membrane-bound PDE. In addition to its role in the PDE complex, the encoded protein is thought to bind to prenyl groups of proteins to target them to subcellular organelles called cilia. Mutations in this gene are associated with Joubert syndrome-22. Alternative splicing results in multiple splice variants. [provided by RefSeq, Mar 2014]

Product images:



Circular map for RG235566