

## Product datasheet for RC235566

### PDE6D (NM\_001291018) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PDE6D (NM\_001291018) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PDE6D  
**Synonyms:** JBTS22; PDED  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC235566 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGTCAGCCAAGGACGAGCGGGCCAGGGAGATCCTGAGGGGCTTCAAACAAATTGGATGAACCTTCGGG  
 ATGCTGAGACAGGAAGATACTCTGGCAAGGAACAGAAGACCTGTCTGTCCCTGGTGGAGCATGAAGC  
 CCGTGTCCCAAGAAAATCCTCAAGTGAAGGCAGTGTCTCGAGAACTTAATTTTCTTCGACAGAACAA  
 ATGGAAAATTCGCCTGGAACAAAAGTTTACTTCAAAGGGCAATGCCTAGAAGTGGGAACGTTATCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC235566 protein sequence  
 Red=Cloning site Green=Tags(s)  
 MSAKDERAREILRGFKLNWMNLRDAETGKILWQGTEDLSVPGVEHEARVPPKILKCKAVSRELNFSSTEQ  
 MEKFRLEQKVYFKGQCLEVGTLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-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).

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.

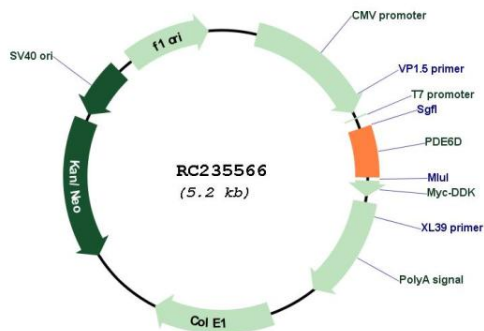
RefSeq: [NM\\_001291018.1](#), [NP\\_001277947.1](#)

RefSeq Size: 1108 bp

RefSeq ORF: 282 bp

Locus ID:	5147
UniProt ID:	<a href="#">O43924</a>
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 RC235566