

# **Product datasheet for RG216236**

### OriGene Technologies, Inc.

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## PDE6 gamma (PDE6G) (NM\_002602) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: PDE6 gamma (PDE6G) (NM\_002602) Human Tagged ORF Clone

Tag: TurboGFP

**Synonyms:** PDEG; RP57

Mammalian Cell Neomycin

Selection:

Symbol:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG216236 representing NM\_002602

PDE6G

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GAGGCCTTCAACCACCTGGAGCTGCACGAGCTGGCCCAATATGGCATCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216236 representing NM\_002602

Red=Cloning site Green=Tags(s)

 $\verb|MNLEPPKAEFRSATRVAGGPVTPRKGPPKFKQRQTRQFKSKPPKKGVQGFGDDIPGMEGLGTDITVICPW| \\$ 

EAFNHLELHELAQYGII

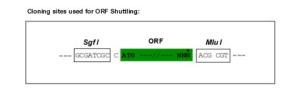
TRTRPLE - GFP Tag - V

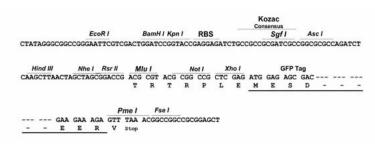
Restriction Sites: Sgfl-Mlul



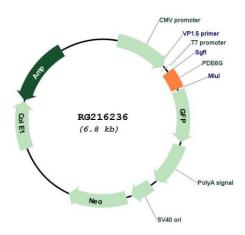


#### **Cloning Scheme:**





#### Plasmid Map:



**ACCN:** NM\_002602

ORF Size: 261 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



#### PDE6 gamma (PDE6G) (NM\_002602) Human Tagged ORF Clone - RG216236

**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:** <u>NM 002602.4</u>

 RefSeq Size:
 1223 bp

 RefSeq ORF:
 264 bp

 Locus ID:
 5148

 UniProt ID:
 P18545

Cytogenetics:

**Protein Families:** Druggable Genome

17q25.3

**Protein Pathways:** Progesterone-mediated oocyte maturation, Purine metabolism

**Gene Summary:** This gene encodes the gamma subunit of cyclic GMP-phosphodiesterase, which is composed

of alpha- and beta- catalytic subunits and two identical, inhibitory gamma subunits. This gene is expressed in rod photoreceptors and functions in the phototransduction signaling cascade. It is also expressed in a variety of other tissues, and has been shown to regulate the c-Src protein kinase and G-protein-coupled receptor kinase 2. Alternative splicing results in multiple

transcript variants. [provided by RefSeg, Feb 2009]