

Product datasheet for **RG216236**

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
Symbol: PDE6G
Synonyms: PDEG; RP57
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG216236 representing NM_002602
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACCTGGAACCGCCCAAGGCTGAGTTCGGTCAGCCACCAGGGTGGCCGGGGGACCTGTCACCCCCA
 GGAAAGGGCCCCCTAAATTTAAGCAGCGACAGACCAGGCAGTTCAAGAGCAAGCCCCAAAGAAAGGCGT
 TCAAGGGTTGGGACGACATCCCTGGAATGGAAGGCCTGGGAACAGACATCACAGTCATCTGCCCTTG
 GAGGCCTCAACCACCTGGAGCTGCACGAGCTGGCCCAATATGGCATCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216236 representing NM_002602
 Red=Cloning site Green=Tags(s)

MNLEPPKAEFRSATRVAGGPVTPRKGPPKFKQRQTRQFKSKPPKKGVQGFDDIPGMEGLGTDITVICPW
 EAFNHLELHELAYGII

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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_002602.4
RefSeq Size:	1223 bp
RefSeq ORF:	264 bp
Locus ID:	5148
UniProt ID:	P18545
Cytogenetics:	17q25.3
Protein Families:	Druggable Genome
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 RefSeq, Feb 2009]