

Product datasheet for SC303224

PDE6 gamma (PDE6G) (NM_002602) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE6 gamma (PDE6G) (NM_002602) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE6G
Synonyms:	PDEG; RP57
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303224 representing NM_002602. Blue=Insert sequence Red=Cloning site Green=Tag(s)

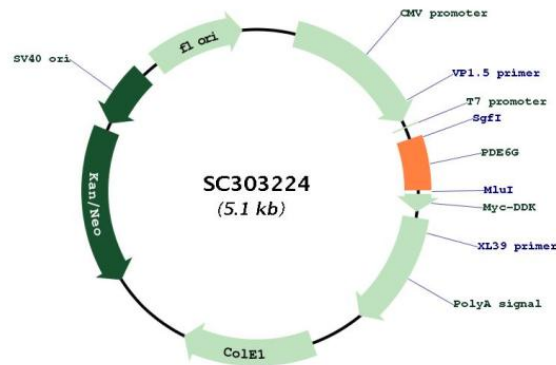
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAACCTGGAACCGCCCAAGGCTGAGTTCGGTCAGCCACCAGGGTGGCCGGGGACCTGTCAACCCC
AGGAAAGGGCCCCCTAAATTTAAGCAGCGACAGACCAGGCAGTTCAAGAGCAAGCCCCAAAGAAAGGC
GTTCAAGGGTTTGGGACGACATCCCTGGAATGGAAGGCCTGGGAACAGACATCACAGTCATCTGCCCT
TGGGAGGCCTTCAACCACCTGGAGCTGCACGAGCTGGCCCAATATGGCATCATCTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM_002602

Insert Size: 264 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_002602.3
RefSeq Size:	1064 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
MW:	9.6 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 3, and 4 all encode the same protein.</p>