

## Product datasheet for **RG235481**

### PKIG (NM\_001281445) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PKIG (NM\_001281445) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PKIG  
**Synonyms:** PKI-gamma  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG235481 representing NM\_001281445.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATGGAGGTCGAGTCCTCCTACTCGGACTTCATCTCCTGTGACCGGACAGGCCGTCGGAATGCGGTC
CCTGACATCCAGGGAGACTCAGAGGCTGTGAGCGTGAGGAAGCTGGCTGGAGACATGGCGAGCTGGCA
CTCGAGGGGGCAGAAGGACAGGTGGAGGGAAGCGCCAGACAAGGAAGCTGGCAACCAGCCCCAGAGC
AGCGATGGGACCACCTCGTCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG235481  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MMEVESSYDFISCDRTGRRNAVPIIQGDSEAVSVRKLADMGELALEGAEGQVEGSAPDKEAGNQPOS
SDGTTSS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001281445

**ORF Size:** 228 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\\_001281445.2](#)

**RefSeq Size:** 1186 bp

**RefSeq ORF:** 231 bp

**Locus ID:** 11142

**UniProt ID:** [Q9Y2B9](#)

**Cytogenetics:** 20q13.12

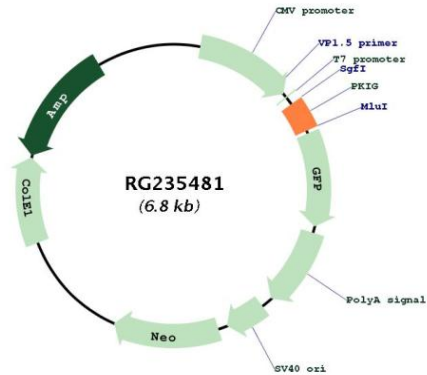
**Protein Families:** Druggable Genome

**MW:** 8.4 kDa

**Gene Summary:**

This gene encodes a member of the protein kinase inhibitor family. Studies of a similar protein in mice suggest that this protein acts as a potent competitive cAMP-dependent protein kinase inhibitor, and is a predominant form of inhibitor in various tissues. The encoded protein may be involved in osteogenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

**Product images:**



Circular map for RG235481