

Product datasheet for RG231664

OriGene Technologies, Inc.

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APC16 (ANAPC16) (NM_001242547) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: APC16 (ANAPC16) (NM_001242547) Human Tagged ORF Clone

Tag: TurboGFP Symbol: ANAPC16

Synonyms: APC16; bA570G20.3; C10orf104; CENP-27; MSAG

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >RG231664 representing NM_001242547
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCTGCTTCATCATCCTCCTCCAGCTGGTGGGGTCAGTGGAAGTTCTGTCACTGGATCTGGTTTCAGTGTCTCAGACCTTGCCCCACCACGGAAAGCCCTTTTCACCTACCCCAAAGGAGCTGGAGAGATGTTAGAAGATGGCTCTGAGAGATTCCTCTGCGAATCTGTTTTTAGCTATCAAGTGGCATCCACGCTTAAACAGGTGAAACATGATCAGCAAGTTGCTCGGATGGAAAAACTAGCTGGTTTGGTAGAAGAGCTGGAGGCTGACGAGT

GGCGGTTTAAGCCCATCGAGCAGCTGCTGGGATTCACCCCCTCTTCAGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231664 representing NM_001242547

Red=Cloning site Green=Tags(s)

 ${\tt MAASSSSSSAGGVSGSSVTGSGFSVSDLAPPRKALFTYPKGAGEMLEDGSERFLCESVFSYQVASTLKQV}$

KHDQQVARMEKLAGLVEELEADEWRFKPIEQLLGFTPSSG

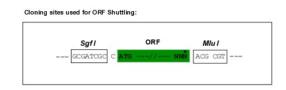
TRTRPLE - GFP Tag - V

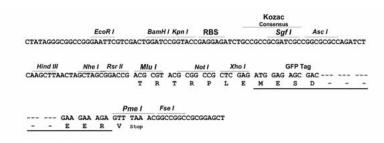
Restriction Sites: Sgfl-Mlul



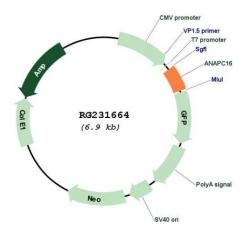


Cloning Scheme:





Plasmid Map:



ACCN: NM 001242547

ORF Size: 330 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



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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: 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 001242547.2</u>

 RefSeq Size:
 3186 bp

 RefSeq ORF:
 333 bp

 Locus ID:
 119504

 UniProt ID:
 Q96DE5

 Cytogenetics:
 10q22.1

Gene Summary: Component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated E3

ubiquitin ligase that controls progression through mitosis and the G1 phase of the cell cycle. The APC/C complex acts by mediating ubiquitination and subsequent degradation of target proteins: it mainly mediates the formation of 'Lys-11'-linked polyubiquitin chains and, to a

lower extent, the formation of 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains.

[UniProtKB/Swiss-Prot Function]