

Product datasheet for RG235545

OriGene Technologies, Inc.

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Apc11 (ANAPC11) (NM_001289418) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Apc11 (ANAPC11) (NM_001289418) Human Tagged ORF Clone

Tag: TurboGFP Symbol: ANAPC11

Synonyms: APC11; Apc11p; HSPC214

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >RG235545 representing NM_001289418.

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

GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence: >Peptide sequence encoded by RG235545

Blue=ORF Red=Cloning site Green=Tag(s)

MRTVASAGWHLTDAALTVSVPSMLSERPRLQGARRRLPAGVGPVLPLLPHALHPQVAARTAGAAALPHV

PPGMEVQGVRPDLALAGGAS

TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA

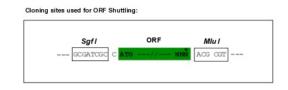
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

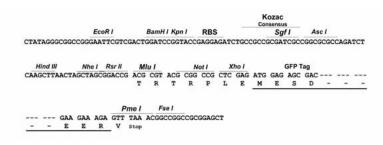
Restriction Sites: Sgfl-Mlul



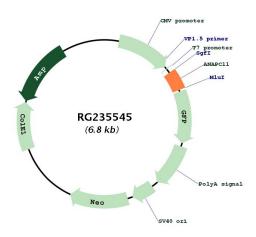


Cloning Scheme:





Plasmid Map:



ACCN: NM_001289418

ORF Size: 267 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).

RefSeq: <u>NM 001289418.1, NP 001276347.1</u>

 RefSeq Size:
 893 bp

 RefSeq ORF:
 270 bp

 Locus ID:
 51529

 Cytogenetics:
 17q25.3

Protein Families: Druggable Genome

Protein Pathways: Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation, Ubiquitin mediated

proteolysis

MW: 9.5 kDa

Gene Summary: Together with the cullin protein ANAPC2, constitutes the catalytic 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. May recruit the E2 ubiquitin-conjugating

enzymes to the complex.[UniProtKB/Swiss-Prot Function]