

## Product datasheet for RC200097

### Apc11 (ANAPC11) (NM\_001002244) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Apc11 (ANAPC11) (NM\_001002244) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Apc11  
**Synonyms:** APC11; Apc11p; HSPC214  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC200097 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGGTGAAGATTAAGTGCTGGAACGGCGTGGCCACTTGGCTCTGGGTGGCCAACGATGAGAAGTGTG  
 GCATCTGCAGGATGGCATTAAACGGATGCTGCCCTGACTGTCTCTCCATGGAGAAAGCATTCTAGGTG  
 TTTGGGCTGGTCCCGCAGCCTGTGCCTGTCTGGGAGGCAGGGCCATCCACAGGTGCCATCAACACA  
 GCTTCCCCAACGCCTGGCAGCACACCGGATCCCTGATGTCTAGGAAGAGTCTTCTAGTCCCCAGACC  
 CCACCCCTCCTGCCCTTGATCAAGAGACCAGTTCCTACTACTCAGATGCACGTCTCCTTGGTGCCTTGACCA  
 TTCATGTGACCTTTTGGCATCACAGATCAAGTGTCTGCAGATGGGCCAGGGCCTGTAGGCAAGGTGCC  
 CGGCGAGGACTGCCCGCTGGTGTGGGGCAGTGTCCCACTGCTCCACATGCATTGCATCCTCAAGTGG  
 CTGCACGCACAGCAGGTGCAGCAGCACTGCCCATGTGCCCCAGGAATGGAAGTTCAAGGAGTGAGGCC  
 CGACCTGGCTCTCGTGGAGGGGATCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC200097 protein sequence  
 Red=Cloning site Green=Tags(s)

MKVKIKCWNGVATWLWVANDENCGICRMAFNCCPDCPLHGESISRCLGWCPQVPVVLGGRAHPQVPINT  
 ASPTPGQHTGSLMSREESSRSPDPTPPALDQETSSLLRCTSPWCLDHSCDLFGITDQVSADGPRACRQGA  
 RRRLLPAGVGPVLPPLLPHALHPQVAARTAGAAALPHVPPGMEVQGVRLALAGGAS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



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**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6399\\_b12.zip](https://cdn.origene.com/chromatograms/mk6399_b12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001002244

**ORF Size:** 588 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).

**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:** [NM\\_001002244.2](#), [NP\\_001002244.1](#)

**RefSeq Size:** 1186 bp

**RefSeq ORF:** 591 bp

**Locus ID:** 51529

**UniProt ID:** [Q9NYG5](#)

**Cytogenetics:** 17q25.3

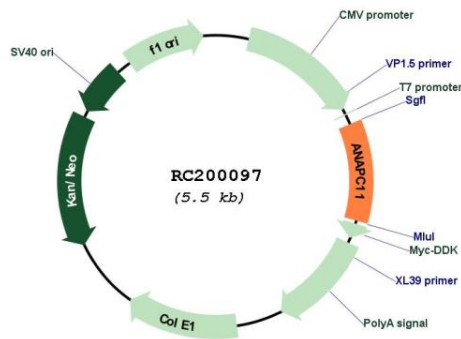
**Protein Families:** Druggable Genome

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

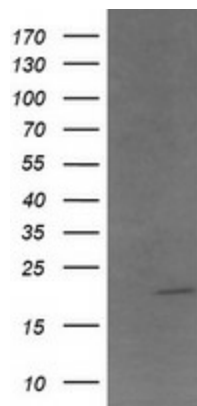
**MW:** 20.6 kDa

**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]

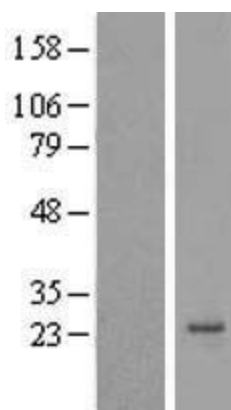
**Product images:**



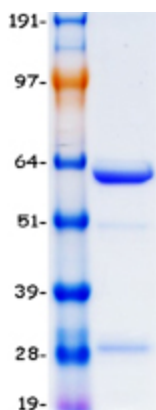
Circular map for RC200097



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ANAPC11 (Cat# RC200097, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ANAPC11(Cat# [TA506325]). Positive lysates [LY424181] (100ug) and [LC424181] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY424181]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200097 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ANAPC11 protein (Cat# [TP300097]). The protein was produced from HEK293T cells transfected with ANAPC11 cDNA clone (Cat# RC200097) using MegaTran 2.0 (Cat# [TT210002]).