

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)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAAGGTGAAGATTAAGTGCTGGAACGGCGTGGCCACTTGGCTCTGGGTGGCCAACGATGAGAACTGTG
 GCATCTGCAGGATGGCATTAAACGGATGCTGCCCTGACTGTCCTCTCCATGGAGAAAGCATTCTAGGTG
 TTTGGGCTGGTGGCCGAGCCTGTGCTGTCTGGGAGGCAGGGCCCATCCAGGTGCCATCAACACA
 GCTTCCCCAACGCTGGGCAGCACACCGGATCCCTGATGTCTAGGAAGAGTCTTCTAGGTCCCCAGACC
 CCACCCCTCCTGCCCTTGATCAAGAGACCAGTTCCTACTCAGATGCACGTCTCCTTGGTGCCTTGACCA
 TTCATGTGACCTTTTGGCATCACAGATCAAGTGTCTGCAGATGGGCCAGGGCCTGTAGGCAAGGTGCC
 CGGCGACGACTGCCCCTGGTGTGGGGCCAGTGTCCCACTGCTTCCACATGCATTGCATCCTCAAGTGG
 CTGCACGCACAGCAGGTGCAGCAGCACTGCCCCATGTGCCGCCAGGAATGGAAGTTCAAGGAGTGAGGCC
 CGACCTGGCTCTCGCTGGAGGGGCATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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

TRTRPLEQKLISEEDLAANDILDYKDDDDKV


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Chromatograms: 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.

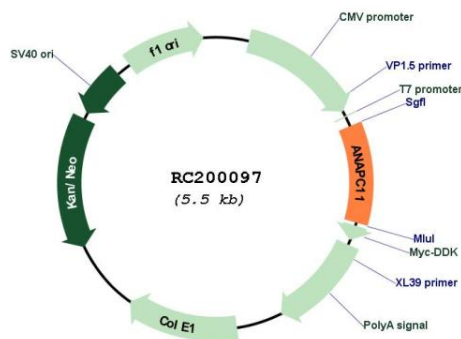
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001002244.2](#), [NP_001002244.1](#)

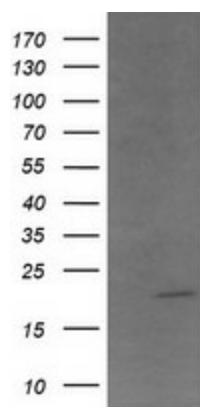
RefSeq Size: 1186 bp

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]

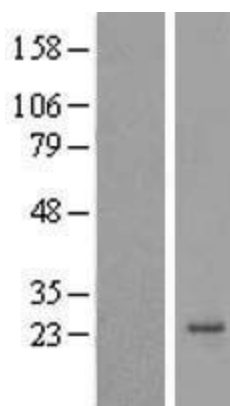
Product images:



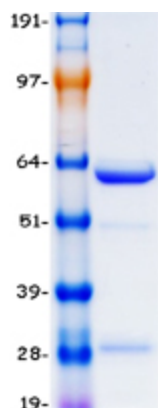
Circular map for RC200097



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]).