

Product datasheet for **RC203030**

Apc5 (ANAPC5) (NM_016237) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apc5 (ANAPC5) (NM_016237) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Apc5
Synonyms:	APC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC203030 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGCGTCCACGAGAGCCTCTACTTCAATCCATGATGACCAATGGGGTTGTGCACGCCAATGTGT
 TCGGCATCAAGGACTGGGTGACGCCGTACAAGATCGCGGTGCTGGTGCTGCTGAACGAGATGAGCCGCAC
 AGGCGAGGGCGCCGTGAGCCTCATGGAGCGGCGGAGGCTCAACCAGCTGCTCCTGCCCTGCTGCAGGGC
 CCAGATATTACACTGTCAAACTTTACAAGTTAATTGAAGAGTCTTGCCACAGCTGGCAAATTCAGTGC
 AGATCAGAATCAAAGTATGGCTGAAGGCGAGTTGAAGGATATGGAACAGTTTTTTGATGACCTTTCAGA
 TTCTTTCTCTGGAAGTGAACCAGAGGTTCAAAAAAAGTGTAGTAGGTTTGTCTGCGTCACATGATC
 TTGGCCTACAGTAAGCTTTCTTTCAGCCAAGTGTAACTGTACTGCCCTTCAGCAGTACTTCCAGA
 ATGGTGAGAAAAAGACAGTGGAGGATGCTGATATGGAAGTACCAGTAGAGATGAGGGTGAAGAAAAAT
 GAAAAAGAAGAACTTGATGTATCTGTAAGAGAAGAGGAGGTATCTTGCAAGTGGGCTCTGTCCAAAAA
 CAAGCAGAATTTTTCTTCTCAACAGGCTTCTTGTCTAAAGAATGATGAGACTAAGGCCCTCACTCCAG
 CTTCTTGCAGAAGGAATTAACAATTTGTTGAAATTTAATCCTGATTTTGTGAAAGCATTATCTCAG
 CTACTTAAACAACCTCCGTGTCGAAGTGTTCAGTTCAACACACAGTCTCCTCCATTATTTGATCGT
 CTGATTCTTACCGGAGCCGAAAGCAAAAGTAAATGGGGAAGAGGGCTATGGCCGGAGCTTGAGATACGCCG
 CTCTGAATCTTGGCCCTGCACTGCCGCTTGGTCACTATCAACAGGCAGAGCTCGCCCTGCAGGAGGC
 AATTAGGATTGCCAGGAGTCCAACGATCACGTGTGTCTCCAGCACTGTTGAGCTGGCTTTATGTGCTG
 GGCAGAAAGATCCGATAGCTATGTTCTGCTGGAGCATTCTGTGAAGAAGGCAGTACATTTGGGTTAC
 CGTACCTCGCTCCCTGGGAATACAGTCCCTTGTCAACAGAGAGCTTTTGTGGGAAGACGGCAAACAA
 GCTGATGGATGCCCTAAAGGACTCCGACCTCCTGCACTGGAAACACAGCCTGTGAGAGCTCATCGATATC
 AGCATCGCACAGAAAACGGCCATCTGGAGGCTGTATGGCCGCAGCACCATGGCACTGCAACAGGCCCAGA
 GTTTGCTGAGCATGAACAGCCTGGAGGCGGTGAATGCGGGCGTGCAGCAGAAACAACAGAGTCTTTGCT
 TGTGCACTCTGCCACCTCGCAGAGCTACACGCGGAGCAGGGCTGTTTTGCTGCACTTCTGAAGTGTTA
 AAGCACTTGAAGAACGATTTCCGCTAATAGTCAGCACGCCAGTTATGGATGTTATGTGATCAAAAAA
 TACAGTTTGACAGAGCAATGAATGATGGCAAATATCATTGGCTGATTCACTTGTACAGGAATCACAGC
 TCTCAATAGCATAGAGGGTGTATAGGAAAGCGTGTATTACAAGCTCAGAACCAATGTCAGAGGCA
 CATAAGCTTTTACAAAAATTGTTGGTTCATTGTCAGAACTGAAGAACACAGAAATGGTGATCAGTGTC
 TACTGTCCGTGGCAGAGCTGACTGGCGATCTTCTCCCTACCATCGCGCTGCCATGCTCCTGCAGGC
 TCTGGCCCTCTCAAGGAGTACCGGTTACAGTACTTGGCCTCTGAAACAGTGTGAACTTGGCTTTTGGC
 CAGCTCATTCTTGAATCCCAGAACAGGCTTAAGTCTTCTCCACATGGCCATCGAGCCCATCTTGGCTG
 ACGGGGCTATCCTGGACAAAGGTCGTGCCATGTTCTTAGTGGCCAAGTGCAGGTGGCTTTCAGCAGCTTC
 CTACGATCAGCCGAAAGAAAGCAGAAGCTCTGGAGGCTGCCATCGAGAACCTCAATGAAGCCAAGAATAT
 TTTGCAAAGGTTGACTGCAAAGAGCGCATCAGGAGCGTCTTACTTCCAGGCCAGACTCTACCATACCC
 TGGGGAAGACCCAGGAGAGGAACCGGTGTCGATGCTCTTCCGGCAGCTGCATCAGGAGCTGCCCTCTCA
 TGGGGTACCCTTGATAAACCATCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203030 protein sequence
 Red=Cloning site Green=Tags(s)

MASVHESLYFNPMMTNGVVHANVFGIKDWVTPYKIAVLVLLNEMSRTGEGAVSLMERRRLNQLLLPLLQG
 PDITLSKLYKLIIEESCPQLANSVQIRIKLMAEGLKDMEQFFDDLSDSFSGTEPEVHKTSVVGLFLRHMI
 LAYSKLSFSQVFKLYTALQQYFQNGEKKTVEDADMELTSRDEGERKMEKEELDVSVREEEVSCSGPLSQK
 QAEFFLSQQASLLKNDKALTPASLQKELNLLKFNPDFAEAHYLSYLNLRVQDVFSSHSLLLHYFDR
 LILTGAESKSNGEEGYGRSLRYAALNLAALHCRFGHYQQAEALALQEAIRIAQESNDHVCLQHCLSWLYVL
 GQKRSDSYVLLLEHSYKKA VHFGLPYLASLGIQSLVQQRAFAGKTANKLMDALKDSDLLHWKHSLSLID
 SIAQKTAIWRLYGRSTMALQQAQMLLSMNSLEAVNAGVQNNTEFAVALCHLAELHAEQGCFAAASEVL
 KHLKERFPNSQHAQLWMLCDQKIQFDRAMNDGKYHLADSLVTGITALNSIEGVYRKAVVLQAQNMSEA
 HKLLQKLLVHCQKLNTEMVISVLLSVAELYWRSSPTIALPMLLQALALSKEYRLQYLASETVLNLAF
 QLILGIPEQALSLLHMAIEPILADGAILDKGRAMFLVAKCQVASAASYDQPKKAEALEAAIENLNEAKNY
 FAKVDCKERIRDVVYFQARLYHTLGTQERNRCAMLFRLHQELPSHGVPLINHL

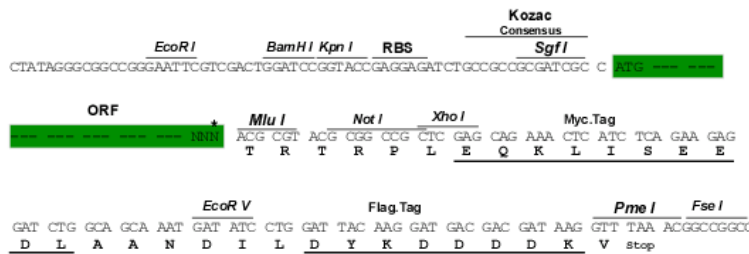
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6156_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_016237

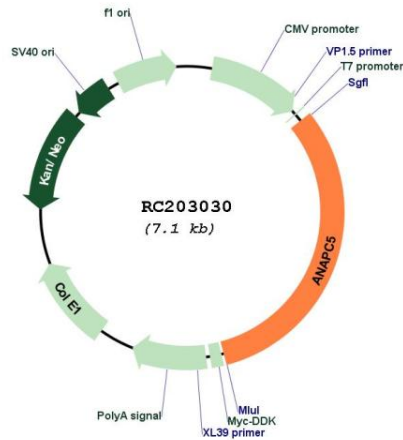
ORF Size: 2265 bp

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](#)

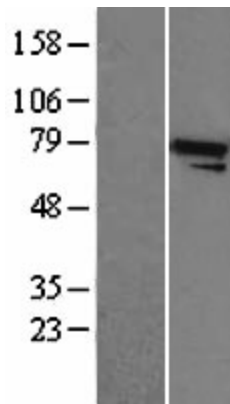
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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_016237.3, NP_057321.2</u>
RefSeq Size:	2625 bp
RefSeq ORF:	2268 bp
Locus ID:	51433
UniProt ID:	<u>Q9UJX4</u>
Cytogenetics:	12q24.31
Domains:	TPR
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation, Ubiquitin mediated proteolysis
MW:	85.1 kDa
Gene Summary:	This gene encodes a tetratricopeptide repeat-containing component of the anaphase promoting complex/cyclosome (APC/C), a large E3 ubiquitin ligase that controls cell cycle progression by targeting a number of cell cycle regulators such as B-type cyclins for 26S proteasome-mediated degradation through ubiquitination. The encoded protein is required for the proper ubiquitination function of APC/C and for the interaction of APC/C with transcription coactivators. It also interacts with polyA binding protein and represses internal ribosome entry site-mediated translation. Multiple transcript variants encoding different isoforms have been found for this gene. These differences cause translation initiation at a downstream AUG and result in a shorter protein (isoform b), compared to isoform a. [provided by RefSeq, Nov 2008]

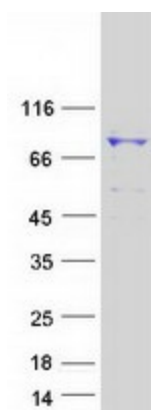
Product images:



Circular map for RC203030



Western blot validation of overexpression lysate (Cat# [LY402524]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203030 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ANAPC5 protein (Cat# [TP303030]). The protein was produced from HEK293T cells transfected with ANAPC5 cDNA clone (Cat# RC203030) using MegaTran 2.0 (Cat# [TT210002]).