

## Product datasheet for **RR207668**

### Anapc5 (NM\_001080147) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Anapc5 (NM_001080147) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Anapc5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR207668 representing NM\_001080147  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGACCAACGGGGTAGTGCACGCCAACTTGTGGTCAAGGACTGGGTGACGCCCTATAAGATCG  
 CGGTCTGGTGTCTGAACGAGATGGGCCGACGGGAGAGGGTCTGTACGCCCTTGTGGAGCGCGGAA  
 GCTCAACCAGCTGCTCCTGCCCTGCTGCAGGGCCAGATATTACTGTCAAAGCTGTACAAAATAATT  
 GAAGAATCGTGTCTCAGCTGGCAAATTCAGTGCAGATCAGAATCAAAGTATGGCTGAAGGCGAATTGA  
 AGGATCTGGAACAATTTTTGATGACCTTTCAGATTCTTTTTCTGGAAGTGAACAGAGGTTACAAAAAC  
 AAGTGTAGTAGTCTGTTCTGCGTCACATGATCTTGGCTACAGCAAGCTTTCCTTCAGTCAAGTGTT  
 AAGCTGTACTGCTGCCCTGCAGCAGTATTCCAGAACGGGAGAAAAAGACGGTGAAGACGCTGACATGG  
 ACAGAGAGGATGGAGAGAGACAGATGGAGAAGGAGGAGCTCGACGTATCTGTAGAGAAGAGGAGGTATC  
 TTGCAGTGGTCTGTCCAAAAACAAGCAGAATTTTTCTTTCTCAGCAGGCTGCTTTGTTGAAGAAT  
 GACGAGACTAAAGCCCTACCCAGCCTCCTTGCAGAAGGAGTTGAACAACCTGTTGAAATTTAATCCTG  
 ATTTTGTGAAGCTCATTACCTCAGTACTTAAACAACCTCCGTGTTCAAGATGTTTTAGCTCAACGCA  
 CAGCCTCCTTATTATTTGACCGCTGATTCTACTGGAGCAGAGGGCAAAAGTAAATGGGGAAGAAGGT  
 TATGGCCGGAGCCTAAGATACGCCGCTCTCAACCTGGCTGCCCTGCAGTCCGCTTCGGCCACTATCAAC  
 AGGCAGAGCTCGCCCTGCAGGAGGCAATTAGGATTGCCAGGAGTCCAACGATACGTGTGTCTGCAGCA  
 CTGTTTGAAGTGGCTTTATGTCTGGGGCAGAAGAGAGCCGATAGCTATGTTCTGCTGGAGCATTCTGTG  
 AAGAAAGCAGTGCATTTTGGGTTACCGAGAGCTTTTGTGGGAAGACGGCCAACAACTGATGGATGCC  
 TAAAGGACTCTGACCTCCTGCACCTGGAACACAGCTTGTGCAACTTATCGACATCAGCATCGCACAGAA  
 AACGGCCATCTGGAGGCTGTACGGCCGACGACCATGGCACTGCAGCAAGCCAGATGCTGCTGAGCATG  
 AACAGCCTGGAGTCACTGAGTGCAGGTGTGCAACAGAACAACACCGAGTCTTTGCCGTCGCTCTGCCC  
 ATCTTGCAGAGCTGCATGCAGAACAGGGCTGTTTCGCTGCTGCCGGGAAGTACTGAAGCACTTGAAGGA  
 ACGGTTCCCAACACAGTCAAGCAGCCAGTTATGGATGCTGTGTGATCAAAAAATACAGTTTACAGAG  
 GCAATGAATGATGGTAAATTCATTTGGCTGACTCGCTTGTACAGGAATCACAGCACTTAAATGGCATAG  
 AAGGAGTATACAGAAAAGCAGTGGTGTGCAAGCTCAAACCAGATGACAGAGGCACACAAGCTTTTGA  
 GAAGTTGCTGACATACTGTGAGAAGTTGAAGAACACAGAGATGGTCATCAGCGTCTCCTGTGGTGGCA  
 GAGCTGTACTGGCGATCTCCTCCCGACCATCGCAATGCCTGTGCTCCTGGAAGCTCTGGCCCTCTCCA  
 AAGAATACCGGTTACAGTACTTGGCCTCTGAAACTGTGCTCAACTGGCTTATGCCAGCTCATCCTGGG  
 GATCCCAAGACAGGCCTAACCTTCTCCACATGGCTATTGAGCCATCCTGGCCGATGGGGCCATCCTG  
 GACAAAGGCCGTGCCATGTTCTTAGTGTCCAAGTGCCAAGTGGCTTACAGCAGTTCTATGACCCAGTGA  
 AGAAAGCAGAAGCTCTGGAAGCAGCCATTCAGAACCTCACTGAAGCCAAGAACTACTTTGCAAAAGTCGA  
 CTGTAGAGAGCGCATCAGGGATGTGTCGTACTTCCAGGCCAGGCTGTACACGCCCTCGGCAAGACCCAG  
 GAGAGGAACCACTGTGCCATGGTCTTCCGGCAGCTGCACCAGGAGCTGCCTTCCCATGGGGTCCCTGA  
 TTAACCATCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR207668 representing NM\_001080147  
 Red=Cloning site Green=Tags(s)

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MMTNGVVHANLFGIKDWVTPYKIAVLVLLNEMGRGTGEGAVSLVERRKLNQLLLPLLQGPDITLSKLYKLI
EESCPQLANSVQIRIKLMAEGELKDLEQFFDDLSDSFSGTEPEVHKT SVVGLFLRHMILAYSKLSFSQVF
KLYTALQQYFQNGEKKTVEDADM DREDGERQMEKEELDVSVREEEVSCSGPLSQKQAEFFLSQQAALLKN
DETKALTPASLQKELNNLLKFNPDFAEAHYLSYLN NLRVQDVFSSTHSL LH YFDRLILTGAEGKSN GEEG
YGRSLRYAALNLAALHCRFGHYQQAELALQEAI RIAQESNDHVCLQHCLSWLYVLGQKRADSYV LLEHSV
KKAVHFGLPRAFAGKTANKLMDALKDSDLLHWHKSLSELIDISIAQKTAIWRLYGRSTMALQQAQMLLSM
NSLESLSAGVQQNNTESFAVALCHLAELHAEQGCFAAAGEVLKHLKERFPNPSQHAQLWMLCDQKIQFDR
AMNDGKFHLADSLVTGITALNGIEGVYRKAVVLQAQNQMTEAHKLLQKLLTYCQKLNKNTMVISVLLSVA
ELYWRSSSPTIAMPV LLEALALSKEYRLQYLASETVLN LAYAQLILGIPEQAL TLLHMAIEPILADGAIL
DKGRAMFLVSKCQVASAASYDPVKKAEALEA AIQNLTEAKNYFAKVDCRERIRDVSYFQARLYHALGKTQ
ERNHCAMVFRQLHQELPSHGVP L INHL
  
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001080147

**ORF Size:** 2181 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\\_001080147.1](#), [NP\\_001073616.1](#)

**RefSeq Size:** 2384 bp

**RefSeq ORF:** 2184 bp

**Locus ID:** 288671

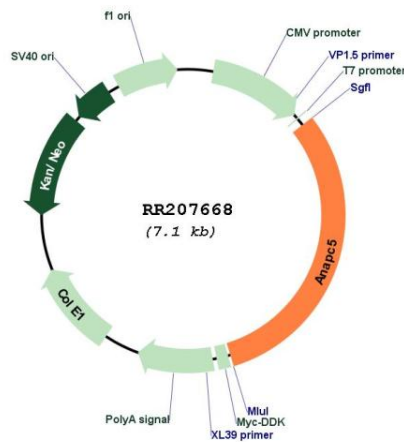
**UniProt ID:** [A1L1K3](#)

**Cytogenetics:** 12q16

**MW:** 81.7 kDa

**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 (By similarity). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RR207668