

## Product datasheet for **MR210311**

### Anapc5 (NM\_001042491) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Anapc5 (NM_001042491) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Anapc5
Synonyms:	2510006G12Rik; AA408751; AA536819; AA986414; Anpc5; APC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR210311 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGACCAACGGGGTAGTGCACGCCAACTTGTTGGCATCAAGGACTGGGTGACGCCCTATAAGATCG  
 CCGTCCTGGTGTCTCAACGAGATGGGCCGCACGGGCGAGGGGCCCGTACGCCCTCGTGGAGCGCGGAA  
 GCTCAACCAGCTGCTCCTGCCCTGCTGCAGGGCCAGATATTACACTGTCAAAGCTGTACAAGCTAATT  
 GAAGAATCGTGTCTCAGCTGGCAAATTCAGTGCAGATCAGAATCAAGCTCATGGCTGAAGGCGAACTGA  
 AGGATATGGAACAATTTTTGATGACCTTTAGATTCTTTTTCTGGAAGTGAACCAGAGGTTACAAAAAC  
 GAGTGTAGTAGGTCTGTTCTGCGCCACATGATCTTGGCCTACAGTAAGCTTTCTTTAGTCAAGTGT  
 AAGCTGTACACTGCCCTCCAGCAGTACTCCAGAACGGGAGAAAAAGACGGTGAAGATGCTGATATGG  
 ACCGAGAGGATGGAGAGAAACAGATGGAGAAGGAAGAGCTCGACGTGTCGGTGAAGAGAGGAAGTATC  
 TTGCAGTGGTCTGTCCAAAAACAAGCGGAATTTTTCTCTCTCAGCAGGCCGCTTTGTTGAAGAAT  
 GATGAGACTAAAGCCCTACCCAGCTTCTTGCAGAAGGAATTGAACAACCTGTTGAAGTTAATCCTG  
 ATTTTGCTGAAGCTCATTACCTCAGTACTTAAACAACCTCCGTTTCAAGATGTTTTAGCTCAACACA  
 CAGCCTCTGCATTATTTGACCGCTGATTCTCACTGGAGCGGAGGGCAAAAGTAAATGGGGAAGAGGGT  
 TATGGCCGGAGCCTGAGATACGCTGCTCTCAACCTGGCTGCCCTGCAGTCCGCTTCGGTCACTATCAAC  
 AGGCAGAGCTCGCCCTGCAGGAGGCAATTAGGATTGCCAGGAGTCCAACGATACGTGTGTCTGCAGCA  
 CTGTTTGAAGTGGCTTTATGTCTGGGGCAGAAGAGAGCCGATAGCTATGTTCTGCTGGAGCACTGTG  
 AAGAAAGCAGTACATTTGGGTTACCGAGAGCTTTTGTGGGAAGACGGCCAACAACTGATGGATGCC  
 TAAAGGACTCTGACCTCCTGCACCTGGAACACAGCCTGTGAGAATTATCGATATCAGCATTGCACAGAA  
 AACGGCCATCTGGAGGCTGTACGGCCGAGCACCATGGCACTGCAACAAGCCAGATGTTGCTGAGCATG  
 AACAGCCTGGAGTCGCTGAATGCGGGTGTACAGCAGAACAATACTGAGTCTTTGCCGTCGCTCTGCCC  
 ATCTTGCAGAGCTCCATGCAGAACAGGGCTGTTTTGCGGCTGCTGGTGAAGTATTAAGCACTTGAAGGA  
 CCGATTTCCACCAACAGTCAAGCAGCCAGTTATGGATGCTGTGTGATCAAAAAATACAGTTTGCAGAG  
 GCAATGAATGATGGCAAATTCATTTGGCTGATCACTTGTACAGGAATCACAGCGCTTAAATGGCATAG  
 AAGGTGTATACAGGAAAGCAGTCGACTGCAGGCTCAGAACCAATGACAGAGGCACACAAGCTACTGCA  
 GAAGTTGCTGACGACTGTGAGAAGTTAAGAACACAGAAATGGTCATCAGCGTCCCTATCGGTGGCA  
 GAGCTGTACTGGCGATCTTCGTCCCGACCATTGCCATGCCTGTGCTCCTGGAAGCTCTGGCCCTCTCCA  
 AAGAATACCGATTGCAGTACTTGGCCTCCGAAACTGTGCTCAACTGGCTTATGCCAGCTCATCCTTGG  
 AATCCCAAGACAGGCCTAACCTTCTCCACATGGCTATCGAGCCATCCTAGCTGACGGGGCTATCCTG  
 GACAAAGGTGCTGCCATGTTCTTAGTGTCCAAGTGCCAAGTGGCTTCGGCAGCGTCTATGACCCAGTGA  
 AGAAAGCGGAAGCTCTGGAAGCGGCCGTTGAGAACCTCAGTGAAGCCAAGAACTACTTTGCAAGTCTGA  
 CTGCAGAGAGCGCATCAGGGATGTTGCTTACTTCCAGGCCAGGCTGTACCACGCTCTTGGCAAGACCCAG  
 GAGAGGAACCATGTGCCATGATCTTCCGGCAGCTGCACCAGGAGTTGCCCGCCATGGGGTGCCTTGA  
 TTAACCACTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATGAGTTTAA

**Protein Sequence:** >MR210311 protein sequence  
Red=Cloning site Green=Tags(s)

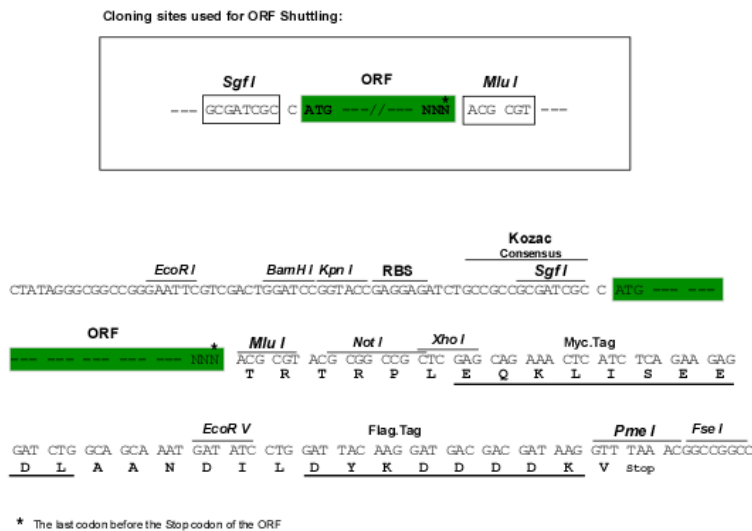
```

MMTNGVVHANLFGIKDWVTPYKIAVLVLLNEMGRTEGEGAVSLVERRKLNQLLLPLLQGPDITLSKLYKLI
EESCPQLANSVQIRIKLMAEGLKDMEQFFDDLSDSFSGTEPEVHKTSVVGFLRHMILAYSKLSFSQVF
KLYTALQQYFQNGEKKTVEDADMEDREGEKQMEKEELDVSVREEEVSCSGPLSQKQAEFFLSQQAALLKN
DETKALTPASLQKELNNLLKFNPDFAEAHYLSYLNLRVQDVFSSHSLHLYFDRLILTGAEGKSNGEEG
YGRSLRYAALNLAALHCRFGHYQQAELALQEAIRIAQESNDHVCLQHCLSWLYVLGQKRADSYVLEHSV
KKAVHFGLPRAFAGKTANKLMDALKDSDLLHWKHSLSLIDISIAQKTAIWRLYGRSTMALQQAQMLLSM
NSLESNAGVQQNNTESFAVALCHLAELHAEQGCFAAAGEVLKHLKDRFPNPSQHAQLWMLCDQKIQFDR
AMNDGKFKHLADSLVTGITALNGIEGVYRKAVVLAQNQMTEAHKLLQKLLTYCQKLNKTEMVISVLLSVA
ELYWRSSPTIAMPVLEALALSKEYRLQYLASETVLNLAYAQLILGIPEQALTLHMAIEPILADGAIL
DKGRAMFLVSKCQVASAASYDPVKKAEALEAAVQNLSEAKNYFAQVDCRERIRDVAIFYARLYHALGKTQ
ERNHCAMIFRQLHQELPAHGVPILNHL
    
```

TRTRPLEQKLISEEDLANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001042491

**ORF Size:** 2184 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\\_001042491.1](#), [NM\\_001042491.2](#), [NP\\_001035956.1](#)

**RefSeq Size:** 2751 bp

**RefSeq ORF:** 2184 bp

**Locus ID:** 59008

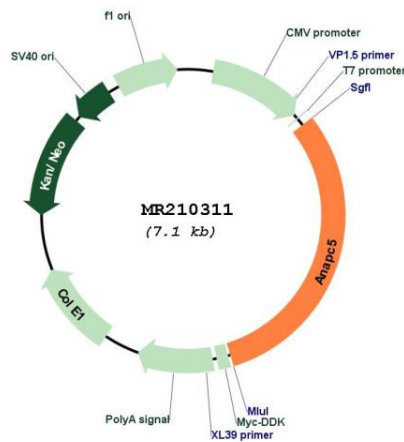
**UniProt ID:** [Q8BTZ4](#)

**Cytogenetics:** 5 F

**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 MR210311