

## Product datasheet for **MR210396**

### Anapc5 (NM\_021505) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Anapc5 (NM_021505) 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)



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**ORF Nucleotide Sequence:**

>MR210396 representing NM\_021505  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATGACCAACGGGGTAGTGCACGCCAACTTGTTGGCATCAAGGACTGGGTGACGCCCTATAAGATCG  
 CCGTCCTGGTGCTGCTCAACGAGATGGGCCGCACGGGCGAGGGCCCGTCAGCCTCGTGAGCGCGGAA  
 GCTCAACCAGCTGCTCCTGCCCTGCTGCAGGGCCAGATATTACACTGTCAAAGCTGTACAAGCTAATT  
 GAAGAATCGTGTCTCAGCTGGCAAATTCAGTGCAGATCAGAATCAAGCTCATGGCTGAAGGCGAACTGA  
 AGGATATGGAACAATTTTTGATGACCTTTAGATTCTTTTTCTGGAAGTGAACCAGAGGTTACAAAAAC  
 GAGTGTAGTAGTCTGTTCTGCGCCACATGATCTTGGCCTACAGTAAGCTTTCTTTAGTCAAGTGTTT  
 AAGCTGTACACTGCCCTCCAGCAGTACTCCAGAACGGGAGAAAAAGACGGTGAAGATGCTGATATGG  
 ACCGAGAGGATGGAGAGAAACAGATGGAGAAGGAAGAGCTCGACGTGTCGGTGAAGAGGAAGTATC  
 TTGCAGTGGTCTCTGTCCAAAAACAAGCGGAATTTTTCTCTCTCAGCAGGCCGCTTTGTTGAAGAAT  
 GATGAGACTAAAGCCCTACCCAGCTTCTTGCAGAAGGAATTGAACAACCTGTTGAAATTTAATCCTG  
 ATTTTGCTGAAGCTCATTACCTCAGTACTTAAACAACCTCCGTGTTCAAGATGTTTTAGCTCAACACA  
 CAGCCTCCTGCATTATTTGACCGCTGATTCTCACTGGAGCGGAGGGCAAAAGTAAATGGGGAAGAGGGT  
 TATGGCCGGAGCCTGAGATACGCTGCTCTCAACCTGGCTGCCCTGCAGTCCCGCTTCGGTCACTAACA  
 AGGCAGAGCTCGCCCTGCAGGAGCAATTAGGATTGCCAGGAGTCCAACGATCAGTGTGTCTGCAGCA  
 CTGTTTGAAGTGGCTTTATGTCTGGGGCAGAAGAGAGCCGATAGCTATGTTCTGCTGGAGCACTGTG  
 AAGAAAGCAGTACATTTGGGTTACCGTACCTCGCCTCCCTGGGAATACAGTCCCTTGTCAACAGAGAG  
 CTTTTGCTGGGAAGACGGCAACAAACTGATGGATGCCCTAAAGGACTCTGACCTCTGCATGGAAACA  
 CAGCCTGTGAGAATTATCGATATCAGCATTGCACAGAAAACGGCCATCTGGAGGCTGTACGGCCGAGC  
 ACCATGGCACTGCAACAAGCCAGATGTTGCTGAGCATGAACAGCCTGGAGTCGATGCGGGTGTGC  
 AGCAGAACAATACTGAGTCTTTGCCGTCGCTCTCTGCCATCTTGACAGGCTCCATGCAGAACAGGGCTG  
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 TTATGGATGCTGTGTGATCAAAAAATACAGTTTGACAGAGCAATGAATGATGGCAAATCCATTTGGCTG  
 ATTCACTGTTACAGGAATCACAGCGCTTAATGGCATAGAAGGTGTATACAGGAAAGCAGTCGACTGCA  
 GGCTCAGAACCAATGACAGAGGCACACAAGCTACTACAGAAGTTGCTGACGTAAGTGTGAGGCTAAAG  
 AACACAGAAATGGTCATCAGTGTCTCCTATCGGTGGCAGAGCTGTACTGGCGATCTTCGTCCCGACCA  
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 AACTGTGCTCAACTTGGCTTATGCCAGCTCATCTTGAATCCCGGAACAGGCCTTAACCTTCTCCAC  
 ATGGCTATCGAGCCCATCTAGCCGACGGGGCTGTCTGGACAAAGGTCGTGCCATGTTCTTAGTGTCCA  
 AGTGCCAAAGTGGCTTCGGCAGCGTCTATGACCCAGTGAAGAAAGCGGAAGCTCTGGAAGCTGCCATTCA  
 GAACCTCAGTGAAGCCAAGAAGTACTTTGCACAAGTCTGACTGCAGAGAGCGCATCAGGGATGTTGCTTAC  
 TTCCAGGCCAGGCTGTACCAGCTCTTGGCAAGACCCAGGAGAGGAACCATTTGCCATGATCTTCCGGC  
 AGCTGCACCAGGAGTTGCCCGCCATGGGGTGCCTTGATTAACCACTC

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210396 representing NM\_021505  
Red=Cloning site Green=Tags(s)

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MMTNGVVHANLFGIKDWVTPYKIAVLVLLNEMGRGTGEGAVSLVERRKLNQLLLPLLQGPDITLSKLYKLI
EESCPQLANSVQIRIKLMAEGLKDMEQFFDDLSDSFSGTEPEVHKT SVVGLFLRHMILAYSKLSFSQVF
KLYTALQQYFQNGEKKTVEDADM DREDGEKQMEKEELDVS VREEEVSCSGPLSQKQAEFFLSQQAALLKN
DETKALTPASLQKELNNLLKFNPDFAEAHYLSYLN NLRVQDVFSSTHSL LH YFDRLILTGAEGKSN GEEG
YGRSLRYAALNLAALHCRFGHYQQAELALQEAI RIAQESNDHVCLQHCLSWLYVLGQKRADSYV LLEHSV
KKAVHFGLPYLASLGIQSLVQQR AFAGKTANKLMDAL KDSDLLHWKHSLS ELDISIAQKTAIWRLYGRS
TMALQQAQMLLSMNSLES LNAGVQQNNTESFAVALCHLAE LHAEQGCFAAAGEVLKHLKDRFP PNSQHAQ
LWMLCDQKIQFDRAMNDGK FHLADSLVTGITALNGIEGVYRKA VVLQAQNMTEAHKLLQKLLTYCQK LK
NTEMVISVLLSVAELYWRSSPTIAMPV LLEALALSKEYRLQYLASETVLN LAYAQLILGIPEQAL TLLH
MAIEPILADGAVLDKGRAMFLVSKCQVASAASYDPVKKA EALEAAIQNLSEAKNYFAQVDCRERIRDVAY
FQARLYHALGKTQERNHCAMIFRQLHQELPAHGVPLINHL
    
```

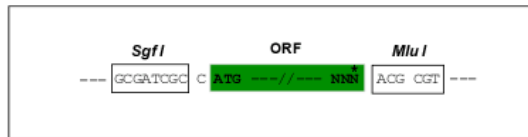
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_021505

**ORF Size:** 2220 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\\_021505.3](#)

**RefSeq Size:** 2760 bp

**RefSeq ORF:** 2223 bp

**Locus ID:** 59008

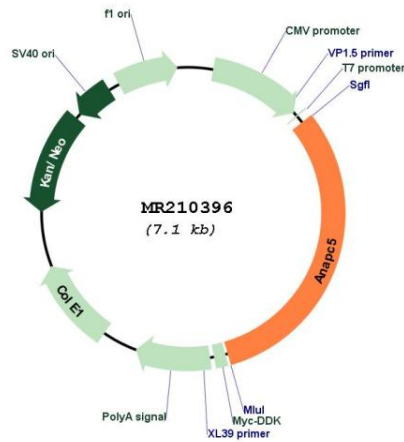
**UniProt ID:** [Q8BTZ4](#)

**Cytogenetics:** 5 F

**MW:** 83.5 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 MR210396