

## Product datasheet for **MR230972**

### Anapc5 (NM\_001289517) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Anapc5 (NM_001289517) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Anapc5
Synonyms:	2510006G12Rik; AA408751; AA536819; AA986414; Anpc5; APC5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide  
Sequence:**

>MR230972 representing NM\_001289517  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGACCAACGGGGTAGTGCACGCCAACTTGTTTGGCATCAAGGACTGGGTGACGCCCTATAAGATCG  
 CCGTCCTGGTGTCTCAACGAGATGGGCCGCACGGGCGAGGGGCCCGTCAAGCCTCGTGGAGCGCGGAA  
 GCTCAACCAGCTGCTCCTGCCCTGCTGCAGGGCCAGATATTACTGTCAAAGCTGTACAAGCTAATT  
 GAAGAATCGTGTCTCAGCTGGCAAATTCAGTGCAGATCAGAATCAAGCTCATGGCTGAAGGCGAACTGA  
 AGGATATGGAACAATTTTTGATGACCTTTAGATTCTTTTTCTGGAAGTGAACCAGAGGTTACAAAAAC  
 GAGTGTAGTAGGCTGTCTCCTGCGCCACATGATCTTGGCCTACAGTAAGCTTTCTTTAGTCAAGTGT  
 AAGCTGTACTGCTCCAGCAGTACTCCAGAACGGGAGAAAAAGACGGTGGAGATGCTGATATGG  
 ACCGAGAGGATGGAGAGAAACAGATGGAGAAGGAAGAGCTCGACGTGTCGGTGGAGAGAAGAGGAATC  
 TTGCAGTGGTCTGTCCAAAAACAAGCGGAATTTTTCTCTCTCAGCAGGCCGCTTTGTTGAAGAAT  
 GATGAGACTAAAGCCCTACCCAGCTTCTTGCAGAAGGAATTGAACAACCTGTTGAAATTTAATCCTG  
 ATTTTGTGAAGCTCATTACCTCAGTACTTAAACAACCTCCGTGTTCAAGATGTTTTAGCTCAACACA  
 CAGCCTCTGCATTATTTGACCGCTGATTCTCACTGGAGCGGAGGGCAAAAGTAAATGGGGAAGAGGGT  
 TATGGCCGGAGCCTGAGATACGCTGCTCTCAACCTGGCTGCCCTGCACTGCCGCTTCGGTCACTATCAAC  
 AGGCAGAGCTCGCCCTGCAGGAGGCAATTAGGATTGCCAGGAGTCCAACGATCAGTGTGTCTGCAGCA  
 CTGTTTGGAGTGGCTTTATGTCTGGGGCAGAAGAGAGCCGATAGCTATGTTCTGCTGGAGCACTGTG  
 AAGAAAGCAGTACATTTGGGTTACCGAGAGCTTTTGTGGGAAGACGGCCAACAACACTGATGGATGCCC  
 TAAAGGACTCTGACCTCCTGCCTGCAACACAGCCTGTGCAACTTATCGATATCAGCATTGCACAGAA  
 AACGGCCATCTGGAGGCTGTACGGCCGACACCATGGCACTGCAACAAGCCAGATGTTGCTGAGCATG  
 AACAGCCTGGAGTCGCTGAATGCGGGTGTGACGAGAACAATACTGAGTCCTTTGCCGTCGCTCTGCCC  
 ATCTTGCAGAGCTCCATGCAGAACAGGGCTGTTTTGCGGCTGCTGGTGAAGTATTAAGCACTTGAAGGA  
 CCGATTTCCACCAACAGTCAAGCAGCCAGTTATGGATGCTGTGTGATCAAAAAATACAGTTTGCAGAG  
 GCAATGAATGATGGCAAATTCATTTGGCTGATCACTTGTACAGGAATCACAGCGCTTAATGGCATAG  
 AAGGTGTATACAGGAAAGCAGTCGACTGCAGGCTCAGAACCAATGACAGAGGCACACAAGCTACTACA  
 GAAGTTGCTGACGACTGTGAGAAGCTAAAGAACACAGAAATGGTCATCAGTGCCTCCTATCGGTGGCA  
 GAGCTGTACTGGCGATCTTCGTCCCGACCATCGCCATGCCTGTGCTCCTGGAAGCTCTGGCCCTCTCCA  
 AAGAATACCGATTGCAGTACTTGGCCTCCGAAACTGTGCTCAACTTGGCTTATGCCAGGCCTTAACCCCT  
 TCTCCACATGGCTATCGAGCCATCCTAGCCGACGGGGTGTCTTGGACAAGGTCGTGCCATGTTCTTA  
 GTGTCCAAGTGCCAAGTGGCTTCGGCAGCGTCTATGACCCAGTGAAGAAAGCGGAAGCTCTGGAAGCTG  
 CCATTCAGAACCTCAGTGAAGCCAAGAATACTTTGCACAAGTCGACTGCAGAGAGCGCATCAGGGATGT  
 TGCTTACTTCCAGGCCAGGCTGTACCACGCTCTTGGCAAGACCCAGGAGAGGAACCATTTGCCATGATC  
 TTCCGGCAGCTGCACCAGGAGTTGCCCGCCATGGGGTGCCTTGATTAACCACTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230972 representing NM\_001289517  
 Red=Cloning site Green=Tags(s)

MMTNGVVHANLFGIKDWVTPYKIAVLVLLNEMGRTEGEGAVSLVERRKLNQLLLPLLQGPDITLSKLYKLI  
 EESCPQLANSVQIRIKLMAEGLKDMEQFFDDLSDSFSGTEPEVHKT SVVGLFLRHMILAYSKLSFSQVF  
 KLYTALQQYFQNGEKKTVEDADMEDREGEKQMEKEELDVSVREEEVSCSGPLSQKQAEFFLSQQAALLKN  
 DETKALTPASLQKELNNLLKFNPDFAEAHYLSYLNHLRVQDVFSSHTSLLHYFDRLILTGAEGKSNAGEEG  
 YGRSLRYAALNLAALHCRFGHYQQAELALQEAIRIAQESNDHVCLQHCLSWLYVLGQKRADSYVLEHSV  
 KKAVHFGLPRAFAGKTANKLMDALKDSDLLHWKHSLSLIDISIAQKTAIWRLYGRSTMALQQAQMLLSM  
 NSLESNAGVQQNNTESFAVALCHLAELHAEQGCFAAAGEVLKHLKDRFPNPSQHAQLWMLCDQKIQFDR  
 AMNDGKFHLADSLVTGITALNGIEGVYRKAVVLQAQNQMTEAHKLLQKLLTYCQKLNKTEMVISVLLSVA  
 EL YWRSSPTIAMPVLLLEALALSKEYRLQYLASETVLNLAYAQALTLHMAIEPILADGAVLTKGRAMFL  
 VSKCQVASAASYDPVKKAEEAAIQNLSEAKNYFAQVDCRERIRDVAYFQARLYHALGKTQERNHCAMI  
 FRQLHQELPAHGVPILNHL

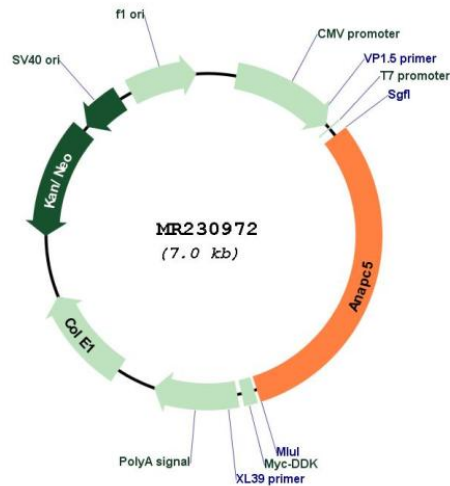
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001289517

**ORF Size:** 2157 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\\_001289517.1](#), [NP\\_001276446.1](#)

**RefSeq Size:** 2727 bp

**RefSeq ORF:** 2160 bp

**Locus ID:** 59008

**Cytogenetics:** 5 F

**MW:** 81.3 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]