

Product datasheet for **MR231017**

Anapc5 (NM_001289520) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Anapc5 (NM_001289520) 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



[View online »](#)

ORF Nucleotide Sequence:

>MR231017 representing NM_001289520
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGACCAACGGGGTAGTGCACGCCAACTTGTTTGGCATCAAGGACTGGGTGACGCCCTATAAGATCG
 CCGTCCTGGTGCTGCTCAACGAGATGGGCCGCACGGGCGAGGGCCCGTCAGCCTCGTGGAGCGCGGAA
 GCTCAACCAGCTGCTCCTGCCCTGCTGCAGGGCCAGATATTACACTGTCAAAGCTGTACAAGCTAATT
 GAAGAATCGTGTCTCAGCTGGCAAATTCAGTGCAGATCAGAATCAAGCTCATGGCTGAAGGCGAACTGA
 AGGATATGGAACAATTTTTGATGACCTTTAGATTCTTTTTCTGGAAGTGAACCAGAGGTTACAAAAAC
 GAGTGTAGTAGGCTGTTCTGCGCCACATGATCTTGGCCTACAGTAAGCTTTCTTTAGTCAAGTGT
 AAGCTGTACACTGCCCTCCAGCAGTACTCCAGAACGGGAGAAAAAGACGGTGAAGATGCTGATATGG
 ACCGAGAGGATGGAGAGAAACAGATGGAGAAGGAAGAGCTCGACGTGTCGGTGAAGAGGAAGTATC
 TTGCAGTGGTCTCTGTCCAAAAACAAGCGGAATTTTTCTCTCTCAGCAGGCCGCTTTGTTGAAGAAT
 GATGAGACTAAAGCCCTACCCAGCTTCTTGCAGAAGGAATTGAACAACCTGTTGAAATTTAATCCTG
 ATTTTGTGAAGCTCATTACCTCAGTACTTAAACAACCTCCGTGTTCAAGATGTTTTAGCTCAACACA
 CAGCCTCCTGCATTATTTGACCGCCTGATTCTCACTGGAGCGGAGGGCAAAAGTAAATGGGGAAGAGGGT
 TATGGCCGGAGCCTGAGATACGCTGCTCTCAACCTGGCTGCCCTGCAGTCCGCTTCGGTCACTATCAAC
 AGGAGAGCTCGCCCTGCAGGAGGCAATTAGGATTGCCAGGAGTCCAACGATCAGTGTGTCTGCAGCA
 CTGTTTGAAGTGGCTTTATGTCTGGGGCAGAAGAGAGCCGATAGCTATGTTCTGCTGGAGCACTGTG
 AAGAAAGCAGTACATTTTGGGTTACCGTCCCTTGTCAACAGAGAGCTTTTGTGGAAGACGGCCAACA
 AACTGATGGATGCCCTAAAGGACTCTGACCTCCTGCAGTGGAAACACAGCCTGTGAGAACTATCGAT
 CAGCATTGCACAGAAAAACGGCCATCTGGAGGCTGTACGGCCGCAGCACCATGGCACTGCAACAAGCCAG
 ATGTTGCTGAGCATGAACAGCCTGGAGTCGCTGAATGCGGGTGTGCAGCAGAACAATACTGATCCTTTG
 CCGTCGCTCTCTGCCATCTTGCAGAGCTCCATGCAGAACAGGGCTGTTTTGCGGCTGCTGGTGAAGTATT
 AAAGCACTTGAAGGACCGATTTCCACCCAACAGTCAACAGCAGCCAGTTATGGATGCTGTGTGATCAAAA
 ATACAGTTTGACAGAGCAATGAATGATGGCAAATTCATTTGGCTGATTCACTTGTACAGGAATCACAG
 CGCTTAATGGCATAGAAGGTGTATACAGGAAAGCAGTCTGACTGCAGGCTCAGAACCAAATGACAGAGGC
 ACACAAGCTACTACAGAAGTTGCTGACGTAAGTGTGACAGCTAAAGAACACAGAAATGGTATCAGTGT
 CTCTATCGGTGGCAGAGCTGTACTGGCGATCTTCGTCCCGACCATCGCCATGCCTGTGCTCCTGGAAG
 CTCTGGCCCTCTCAAAGAATACCGATTGCACTTGGCTCCGAAACTGTGCTCAACTGGCTTATGC
 CCAGCTCATCCTTGAATCCCGGAACAGGCCTAACCCCTCTCCACATGGCTATCGAGCCATCCTAGCC
 GACGGGGCTGTCTGGACAAAGGTGCTGCCATGTTCTTAGTGTCCAAGTGCCAAGTGGCTTCGGCAGCGT
 CCTATGACCCAGTGAAGAAAGCGGAAGCTCTGGAAGTGCATTGAGAACCTCAGTGAAGCCAAGAACTA
 CTTTGCACAAGTCGACTGCAGAGAGCGCATCAGGGATGTTGCTTACTTCCAGGCCAGGCTGTACCACGCT
 CTTGGCAAGACCCAGGAGAGGAACCATTTGCCATGATCTCCGGCAGCTGCACCAGGAGTTGCCCGCC
 ATGGGGTGCCTTGATTAACCACCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATGAGTTTAA

Protein Sequence: >MR231017 representing NM_001289520
 Red=Cloning site Green=Tags(s)

MMTNGVVHANLFGIKDWVTPYKIAVLVLLNEMGRTEGEGAVSLVERRKLNQLLLPLLQGPDITLSKLYKLI
 EESCPQLANSVQIRIKLMAEGELKDMEQFFDDLSDSFSGTEPEVHKT SVVGLFLRHMILAYSKLSFSQVF
 KLYTALQQYFQNGEKKTVEDADMEDREGEKQMEKEELDVSVREEEVSCSGPLSQKQAEFFLSQQAALLKN
 DETKALTPASLQKELNNLLKFNPDFAEAHYLSYLNLRVQDVFSSHTSLHLHYFDRLILTGAEGKSNAGEEG
 YGRSLRYAALNLAALHCRFGHYQQAELALQEAIIRIAQESNDHVCLQHCLSWLYVLGQKRADSYVLEHSV
 KKAVHFGPLPSLVQQRAFAGKTANKLMDALKDSDLHWHKHSLSLIDISIAQKTAIWRLYGRSTMALQQAQ
 MLLSMNSLESNAGVQQNNTESFAVALCHLAELHAEQGCFAAAGEVLRKHLKDRFPNPSQHAQLWMLCDQK
 IQFDRAMNDGKFLADSLVTGITALNGIEGVYRKAVVLQAQNQMTEAHKLLQKLLTYCQKLNKNTMVISV
 LLSVAELYWRSSPTIAMPVLLLEALALSKEYRLQYLASETVLNLAYAQLILGIPEQALTLHMAIEPILA
 DGAVLDKGRAMFLVSKCQVASAASYDPVKKAEALEAAIQNLSEAKNYFAQVDCRERIRDVAYFQARLYHA
 LGKTQERNHCAMIFRQLHQELPAHGVPLINHL

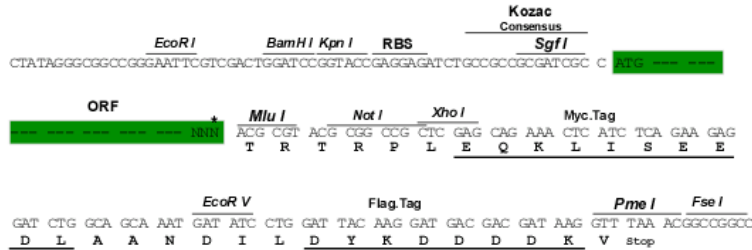
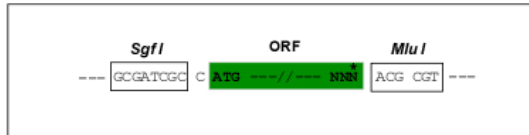
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

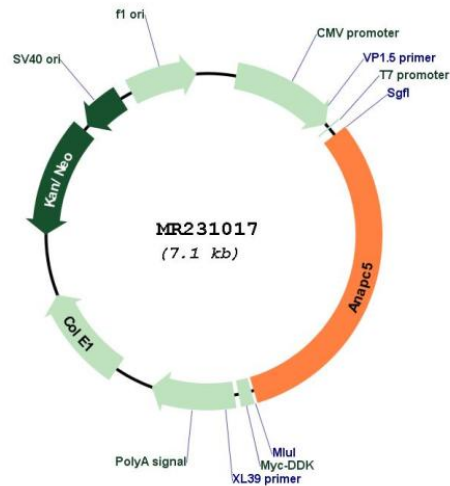
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001289520

ORF Size: 2196 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_001289520.1](#), [NP_001276449.1](#)

RefSeq Size: 2766 bp

RefSeq ORF: 2199 bp

Locus ID: 59008

Cytogenetics: 5 F

MW: 82.7 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]