

Product datasheet for **MR230804**

Anapc5 (NM_001289519) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Anapc5 (NM_001289519) 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:

>MR230804 representing NM_001289519
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGACCAACGGGGTAGTGCACGCCAACTTGTTGGCATCAAGGACTGGGTGACGCCCTATAAGATCG
 CCGTCCTGGTGTCTCAACGAGATGGGCCGACGGGCGAGGGCCCGTCAGCCTCGTGGAGCGCGGAA
 GCTCAACCAGCTGCTCCTGCCCTGCTGCAGGGCCAGATATTACTGTCAAAGCTGTACAAGCTAATT
 GAAGAATCGTGTCTCAGCTGGCAAATTCAGTGCAGATCAGAATCAAGCTCATGGCTGAAGGCGAACTGA
 AGGATATGGAACAATTTTTGATGACCTTTCAGATTCTTTTTCTGGAAGTGAACCAGAGGTTACAAAAAC
 GAGTGTAGTAGGTCTGTTCTGCGCCACATGATCTTGGCCTACAGTAAGCTTTCTTTCAGTCAAGTGTT
 AAGCTGTACTGCTCCAGCAGTACTCCAGAACGGGGAGAAAAGACGGTGGAGATGCTGATATGG
 ACCGAGAGGATGGAGAGAAACAGATGGAGAAGGAAGAGCTCGACGTGTCGGTGGAGAGAAGAGGAATATC
 TTGCAGTGGTCTCTGTCCAAAAACAAGCGGAATTTTTCTCTCTCAGCAGGCCGCTTTGTTGAAGAAT
 GATGAGACTAAAGCCCTACCCAGCTTCTTGCAGAAGGAATTGAACAACCTGTTGAAATTTAATCCTG
 ATTTTGCTGAAGCTCATTACCTCAGTACTTAAACAACCTCCGTGTTCAAGATGTTTTGAGTCAACACA
 CAGCCTCTGCATTATTTGACCGCTGATTCTCACTGGAGCGGAGGGCAAAAGTAAATGGGGAAGAGGGT
 TATGGCCGGAGCCTGAGATACGCTGCTCTCAACCTGGCTGCCCTGCACTGCCGCTTCGGTCACTATCAAC
 AGGCAGAGCTCGCCCTGCAGGAGCAATTAGGATTGCCAGGAGTCCAACGATCAGTGTGTCTGCAGCA
 CTGTTTGAGCTGGCTTTATGTCTGGGGCAGAAGAGAGCCGATAGCTATGTTCTGCTGGAGCACTGTG
 AAGAAAGCAGTACATTTGGGTTACCGTACCTCGCCTCCCTGGGAATACAGTCCCTTGTCAACAGAGAG
 CTTTTGCTGGGAAGACGGCCAACAACTGATGGATGCCCTAAAGGACTCTGACCTCCTGCACTGGAAACA
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 GGCTCAGAACCAATGACAGAGGCACACAAGCTACTACAGAAGTTGCTGACGTAAGTGTGAGGCTAAAG
 AACACAGAAATGGTCATCAGAGCTGTACTGGCGATCTTCGTCCCGACCATCGCCATGCCGTGCTCCTG
 GAAGCTCTGGCCCTCTCAAAGAATACCGATTGCAGTACTTGGCCTCCGAACTGTGCTCAACTGGCTT
 ATGCCAGCTCATCCTTGAATCCCGGAACAGGCCTTAACCCCTTCTCACATGGCTATCGAGCCATCCT
 AGCCGACGGGGTGTCTGGACAAAGGTCGTGCCATGTTCTTAGTGTCCAAGTGCCAAGTGGCTTCGGCA
 GCGTCCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230804 representing NM_001289519
 Red=Cloning site Green=Tags(s)

MMTNGVVHANLFGIKDWVTPYKIAVLVLLNEMGRGTGEGAVSLVERRKLNQLLLPLLQGPDITLSKLYKLI
 EESCPQLANSVQIRIKLMAEGLKDMEQFFDDLSDSFSGTEPEVHKT SVVGLFLRHMILAYSKLSFSQVF
 KLYTALQQYFQNGEKKTVEDADMREDGEKQMEKEELDVSVREEEVSCSGPLSQKQAEFFLSQQAALLKN
 DETKALTPASLQKELNNLLKFNPDFAEAHYLSYLNLRVQDVFSSTHSLLHYFDRLILTGAEGKSNGEEG
 YGRSLRYAALNLAALHCRFGHYQQAELALQEAIRIAQESNDHVCLQHCLSWLYVLGQKRADSYVLLLEHSV
 KKAVHFGLPYLASLGIQSLVQQRAFAGKTANKLMDALKDSDLLHWKHSLSLIDISIAQKTAIWRLYGRS
 TMALQQAQMLLSMNSLESLNAGVQNNNTESFAVALCHLAELHAEQGCFAAAGEVLKHLKDRFPNSQHAQ
 LWMLCDQKIQFDRAMNDGKFLADSLVTGITALNGIEGVYRKAVVLQAQNMTEAHKLLQKLLTYCQKLLK
 NTEMVIRAVLAIFVPDHRHACAPGSSGPLQRIPIAVLGLRNCAQLGLCPAHPWNPPTGLNPSPHGYRAHP
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

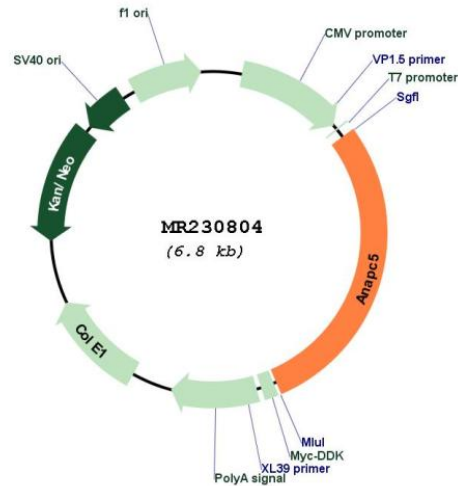
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289519

ORF Size: 1968 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_001289519.1](#), [NP_001276448.1](#)

RefSeq Size: 2770 bp

RefSeq ORF: 1971 bp

Locus ID: 59008

Cytogenetics: 5 F

MW: 73.6 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]