

Product datasheet for **MG210396**

Anapc5 (NM_021505) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Anapc5 (NM_021505) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Anapc5
Synonyms:	2510006G12Rik; AA408751; AA536819; AA986414; Anpc5; APC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210396 representing NM_021505
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGACCAACGGGGTAGTGCACGCCAACTTGTTTGGCATCAAGGACTGGGTGACGCCCTATAAGATCG
 CCGTCCTGGTGCTGCTCAACGAGATGGGCCGCACGGGCGAGGGCCCGTCAGCCTCGTGGAGCGCGGAA
 GCTCAACCAGCTGCTCCTGCCCTGCTGCAGGGCCAGATATTACACTGTCAAAGCTGTACAAGCTAATT
 GAAGAATCGTGTCTCAGCTGGCAAATTCAGTGCAGATCAGAATCAAGCTCATGGCTGAAGGCGAACTGA
 AGGATATGGAACAATTTTTGATGACCTTTAGATTCTTTTTCTGGAAGTGAACCAGAGGTTACAAAAAC
 GAGTGTAGTAGGCTGTTCTGCGCCACATGATCTTGGCCTACAGTAAGCTTTCTTTAGTCAAGTGTTT
 AAGCTGTACACTGCCCTCCAGCAGTACTCCAGAACGGGAGAAAAAGACGGTGGAAAGATGCTGATATGG
 ACCGAGAGGATGGAGAGAAACAGATGGAGAAGGAAGAGCTCGACGTGTCGGTGGAGAGAAGAGGAATATC
 TTGCAGTGGTCTCTGTCCAAAAACAAGCGGAATTTTTCTCTCTCAGCAGGCCGCTTTGTTGAAGAAT
 GATGAGACTAAAGCCCTACCCAGCTTCTTGCAGAAGGAATTGAACAACCTGTTGAAATTTAATCCTG
 ATTTTGTGAAGCTCATTACCTCAGTACTTAAACAACCTCCGTGTTCAAGATGTTTTAGCTCAACACA
 CAGCCTCCTGCATTATTTGACCGCTGATTCTCACTGGAGCGGAGGGCAAAAGTAAATGGGGAAGAGGGT
 TATGGCCGGAGCCTGAGATACGCTGCTCTCAACCTGGCTGCCCTGCAGTCCCGCTTCGGTCACTATCAAC
 AGGCAGAGCTCGCCCTGCAGGAGCAATTAGGATTGCCAGGAGTCCAACGATCAGTGTGTCTGCAGCA
 CTGTTTGAAGTGGCTTTATGTCTGGGGCAGAAGAGAGCCGATAGCTATGTTCTGCTGGAGCACTGTG
 AAGAAAGCAGTACATTTGGGTTACCGTACCTCGCCTCCCTGGGAATACAGTCCCTGTTCAACAGAGAG
 CTTTTGCTGGGAAGACGGCCAACAAACTGATGGATGCCCTAAAGGACTCTGACCTCCTGCAGTGGAAACA
 CAGCCTGTGAGAAGTATCGATATCAGCATTGCACAGAAAACGGCCATCTGGAGGCTGTACGGCCGAGC
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 TTATGGATGCTGTGTGATCAAAAAATACAGTTTGACAGAGCAATGAATGATGGCAAATCCATTTGGCTG
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 AACACAGAAATGGTCATCAGTGTCTCCTATCGGTGGCAGAGCTGTACTGGCGATCTTCGTCCCGACCA
 TCGCCATGCCTGTCTCCTGGAAGCTCTGGCCCTCCAAAGAATACCGATTGCAGTACTTGGCCTCCGA
 AACTGTGCTCAACTTGGCTTATGCCAGCTCATCTTGGAAATCCCGGAACAGGCCTTAACCTTCTCCAC
 ATGGCTATCGAGCCCATCTAGCCGACGGGGCTGTCTGGACAAAGGTGCTGCCATGTTCTTAGTGTCCA
 AGTGCCAAAGTGGCTTCGGCAGCGTCTATGACCCAGTGAAGAAAGCGGAAGCTCTGGAAGCTGCCATTCA
 GAACCTCAGTGAAGCCAAGAAGTACTTTGCACAAGTGCAGTGCAGAGAGCGCATCAGGGATGTTGCTTAC
 TTCCAGGCCAGGCTGTACCACGCTCTTGGCAAGACCCAGGAGAGGAACCATTTGCCATGATCTTCCGGC
 AGCTGCACCAGGAGTTGCCCGCCATGGGGTGCCTTGATTAACCACTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210396 representing NM_021505
 Red=Cloning site Green=Tags(s)

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MMTNGVVHANLFGIKDWVTPYKIAVLVLLNEMGRTEGEGAVSLVERRKLNQLLLPLLQGPDITLSKLYKLI
EESCPQLANSVQIRIKLMAEGELKDMEQFFDDLSDSFSGTEPEVHKT SVVGLFLRHMILAYSKLSFSQVF
KLYTALQQYFQNGEKKTVEDADMREDGEKQMEKEELDVSVREEEVSCSGPLSQKQAEFFLSQQAALLKN
DETKALTPASLQKELNNLLKFNPDFAEAHYLSYLNLRVQDVFSSTHSLHLYFDRLILTGAEKSNGEEG
YGRSLRYAALNLAALHCRFGHYQQAELALQEAIRIAQESNDHVCLQHCLSWLYVLGQKRADSYVLEHSV
KKAVHFGLPYLASLGIQSLVQQRAFAGKTANKLMDALKDSDLLHWKHSLSLIDISIAQKTAIWRLYGRS
TMALQQAQMLLSMNSLES LNAGVQNNTEFAVALCHLAELHAEQGCFAAAGEVLKHLKDRFPNNSQHAQ
LWMLCDQKIQFDRAMNDGKFLADSLVTGITALNGIEGVYRKAVVLQAQNMTEAHKLLQKLLTYCQKLLK
NTEMVISVLLSVAELYWRSSPTIAMPVLEALALSKEYRLQYLASETVLNLAYAQLILGIPQAL TLLH
MAIEPILADGAVLDKGRAMFLVSKCQVASAASYDPVKKAEALEAAIQNLSEAKNYFAQVDCRERIRDVAY
FQARLYHALGKTQERNHCAMIFRQLHQELPAHGVPLINHL
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

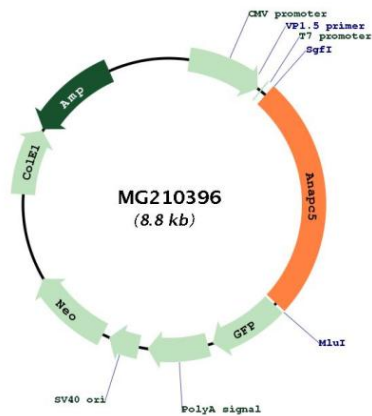
Locus ID: 59008

UniProt ID: [Q8BTZ4](#)

Cytogenetics: 5 F

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 MG210396