

Product datasheet for **MR220806**

Anapc2 (NM_175300) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Anapc2 (NM_175300) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Anapc2
Synonyms:	9230107K09Rik; AL024279; AP; Apc2; Emi; Emi4; Im; Imi4; mKIAA1406
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR220806 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGCCGAGGGTGTGGCGGTGGCGGGCGCGGGCGGGCGGGCGGGCGGACAATTATTGCCT
 CCGATGACTGCGACTCTAGGCCTGGACAGGAGCTCTTGGTTGCCTGGAATACTGTGAGCACCAGTCTGGT
 GCCCGCGCCGCGCTGGGGCTGGCGTCTTCCCGACCAGCGGTGCACTCCACCAAGGAGGAAGAGCTT
 CGTGCAGCGGTGGAGTTCTGAGGGGACACGGTCTGCACTCTGTCTGGAGGAGTGGTTCGTGGAAGTGC
 TGCAGAACGACCTCAAGGCAATATTGCCACGGAGTTCTGGAATGCCATCGCTCTGCGAGAAAACCTGT
 CGATGAGCCCCAGTGCCTTGGGCTGCTCCTGGATGCGTTCGGTCTGCTGGAAAGCCGCTTGGATCCCTAT
 CTGCATAGCCTAGAACTCCTAGAGAAATGGACTCGTCTGGGCTTGTGATGGGCGCTGGAGCTCAGGGGC
 TTCGGGAGAAAGTTCACACTATGTTGCGGGGAGTCTGTTTTTTCCACCCTAGGACATTCAGGAGAT
 GGTCCAGCGCCTCTATGGTCTGTTCTTGGAGTCTATATGCAGAGCAAGAGAAAAGGAGAAGGGGGCACA
 GACCCGGAAGTAGAGGGTGGAGTATAGATAGCCGGTATGCCCGCCGAGGACTACCGACTTTTGCAGAGTC
 CTCTGTGCGCAGGATGTGGCAGTGACAAGCAGCAGTGGTGGCGGCAGGCACTGGAGCAGTTCACCA
 GCTGAGCCAGGTCTGCATAGGCTCAGTCTGCTGGAGCGGGTTTGTGCTGAGGCCGTGACAACCACCTG
 CATCAGGTGACCCGGGAAAGGATGGAAGACCGTCCCGAGGAGAGTATGAGCGCTCTTTTTGCGTGAGT
 TTCACAAGTGGATAGAGAGAGTGGTTGGTTGGCTTGGCAAAGTGTTCCTCAGGACAACCCACCAGACC
 AACTTCTCAGAAGCTGGGAACACACTGCGTCTGGCGCTGCCACGTACAGAGATTCTTCTACCGTATC
 TATGCCACCCTACGCATCGAGGAGCTTTTCCAGCATCCGAGACTTTCCAGACTCCCGCCAGCCATTG
 AAGACCTTAAGTACTGCTTGGAGAGACAGATCAGAGGCAGCAACTTCTGTGTCCTCAAGGTGGCCCT
 AGAGACTCGACTCTCCACCAGGTGTCAACACATGTGACATCACTCTACATTTCTGCCATCAAG
 GCATTACGTGTGCTAGATCCCTCTATGGTCATCCTGGAAGTGGCTTGTGAGCCATCCGTCGATACTGA
 GGACACGAGAGGACACCGTACGGCAGATTGTGGCTGGGCTAACCGGGGACTCAGATGGGACTGGGACTT
 GGCTGTTGAGCTGTCTAAGACTGACCTGCCTGCCTGGAGACCGTCCAGGACAGTGGATGATTCTGGA
 GAGCCCGAGGACTGGGTCCTGACCCTGTGGATGCTGATCCAGTGAAGTCGAGTTCGAAGCAGCTTCTT
 CAGACATCATCAGCCTGCTGGTCAGCATCTATGGCAGCAAAGACCTCTTATCAATGAGTACCGCTCGCT
 ACTTGCAGATCGCCTTCCACCAATTCAGCTTACGCCCTGAGAGGGAGATTTCGTAATGTGGAGCTGTTG
 AAGCTGCGCTTTGGTGAAGCCCATGCACTTCTGTGAGGTGATGCTCAAGGACATGGCAGACTCCCGCC
 GCATCAATGCCAATATCCGAGAGGAGGATGAGAAGCGCCCTGTGGAAGAACAGCCACCATTGGGGTCTA
 TGCTGTCAATTTGTCAGTGAATTTGGCCCTCCCTTCAAAGATGAGAAGCTGGAGGTCCCTGAGGACATC
 AGGGCAGCCCTAGACGTTTACTGCAAGAAGTATGAGAACTGAAGGCTATGCCGACACTAGTTGGAAGC
 ACACCCTGGGCTGGTGACAATGGATGTGGAGCTTGTGACCCGACCCCTGTCTGTTGCGGTGACCCAGT
 ACAGGCAGTGGTCTTGTGATTTCCAGAACCAAGCCAGCTGGACCCTGGAGGAACTGAGCAAGGTGGTG
 AAGATGCCTGTGGCACTGCTTGAAGACGCATGTGAGTGGCTGCAACAGGGTGTGCTGCGGGAGGAAC
 CTCCAGGCACTTCTCTGTGATTGAGGAAGAGCGCCCTCAGGATAGGGACAACATGGTGTGATTGACAG
 TGATGATGAGAGTGAAGCAGGATGGCCTCCAGGCTGACCAGAAGGAAGAGGAGCTACTGCTCTTCTGG
 GCATACATCCAGCCATGTTAACCAACCTAGAGAGCCTCTCTGAGCGTATCTACAGCATGCTCCGGA
 TGTTTGAATGACTGGCCCTGCGTGGCTGAGATTGACCTGCAGGAGCTGCAGGGCTACTTGCAGAAAGAA
 GGTCCGAGACCAGCAGCTCATCTATTCTGCAGGTGTCTACCGCCTGCCTAAGAATCCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220806 protein sequence

Red=Cloning site Green=Tags(s)

```

MEAEGVAVAAAAAAAAAATIIASDDCDSRPGQELLVAVNTVSTGLVPPAALGLASSRTSGAVPPKEEEL
RAAVEVLRGHGLHSVLEEFVVEVLQNDLQGNIAEFWNAIALRENSVDEPQCLGLLLDAFGLLESRLDPY
LHSLELLEKWTRLGLLMGAGAQGLREKVHTMLRGVLLFFSTPRTFQEMVQRLYGRFLRVYMQSKRKGGGT
DPELEGELEDSRYARRRYRLLQSPLCAGCGSDKQCWCRCQALEQFNQLSQVLHRLSLLERVCAEAVTTTL
HQVTRERMEDRCRGEYERSFLREFHKWIERVVGWLGKVFLLQDNPTRPTSPEAGNLRWRCHVQRFYRI
YATLRIEELFSIIRDFPDSRPAIEDLKYCLERTDQRQQLLVSLKVALETRLLHPGVNTCDIITLYISAIK
ALRVLDPSMILEVACEPIRRYLRTREDTVRQIVAGLTGDSGTDGLAVELSKTDPACLETGQDSEDDSG
EPEDWVPDPVDADPVKSSSKRRSSDIISLLVSIYGSKDLFINEYRSLADRLHGFSPERERIRVELL
KLRFGAEMPHFCEVMLKDMADSRINANIREEDEKRPVEEQPPFGVYAVILSSEFWPPFKDEKLEVPEDI
RAALDVYCKKYEKLMKAMRTLWKHTLGLVTMDVELADRTLVAVTPVQAVVLLYFQNASWTLEELSKVV
KMPVALLRRRMSVWLQQGVLREPPGTFVIEEERPQDRDNMVLIDSDDSDSGMASQADQKEEELLLFW
AYIQAMLTNLESLSLERIYSMLRMFVMTGPALAEIDLQELQGYLQKKVRDQQLIYSAGVYRLPKNSN
  
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_175300

ORF Size: 2514 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_175300.4](#), [NP_780509.2](#)

RefSeq Size: 3021 bp

RefSeq ORF: 2514 bp

Locus ID: 99152

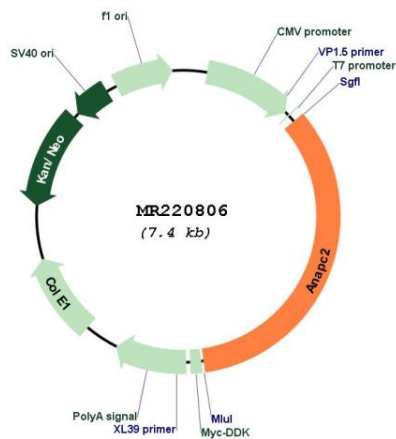
UniProt ID: [Q8BZQ7](#)

Cytogenetics: 2 A3

MW: 95.3 kDa

Gene Summary: This gene encodes a component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated ubiquitin ligase that controls progression through mitosis and the G1 phase of the cell cycle by ubiquitinating its specific substrates, such as mitotic cyclins and anaphase inhibitor, for subsequent degradation by the proteasome. [provided by RefSeq, Oct 2009]

Product images:



Circular map for MR220806