

Product datasheet for **SC310100**

Apc4 (ANAPC4) (NM_013367) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apc4 (ANAPC4) (NM_013367) Human Untagged Clone
Tag:	Tag Free
Symbol:	ANAPC4
Synonyms:	APC4
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_013367, the custom clone sequence may differ by one or more nucleotides

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ATGTTGCGTTTTCCGACCTGTTTCCCATCCTTCCGGGTGGTGGGAGAGAAGCAGCTCCCG
CAGGAGATTATTTTCTGGTCTGGTCGCCCAAGCGGGATCTATTGCTTTGGCCAACACA
GCTGGCGAGGTTTTACTTCATCGACTGGCAAGTTTTATCGAGTTTGGAGTTTTCCACCA
AATGAAAATACAGGAAAGGAGGTGACGTGTCTGGCATGGAGACCAGATGGCAAACTTTTG
GCCTTTGCTCTTGCTGATACCAAGAAAATTGTTTTGTGTGATGTAGAAAAACCTGAGAGC
TTACACTCTTTTTCTGTGGAGGCTCCAGTTTCTGTATGCATTGGATGGAAGTGACAGTA
GAAAGCAGTGTTCTCACATCATTTTATAATGCTGAGGATGAATCAAATCTTCTTACCT
AAACTACCTACACTGCCAAAAACTATAGCAACACCTCAAAAATATTTAGTGAAGAAAAT
TCTGATGAAATTATTAAGCTCTTGGGAGACGTCAGGCTTAATATTCTCGTCTTGGAGGA
AGCTCTGGATTTATTGAGCTTTATGCTTATGGAATGTTTAAAATTGCTCGAGTCACAGGG
ATTGCTGGTACTGTCTTGCATTATGTTTATCAAGTGATTTGAAATCATTATCAGTGGTC
ACAGAAGTCTCTACCAATGGTGCTTCAGAAGTTTCATACTTTTCTGCTTGAACCTAATCTG
TTGTAATCTTTTACCTGAAGTAACTCGGATGGCCAGAAAAGTTACTCATATTTTCAAGCT
CTGTTACAGTATATAAATTTGTCACTAACATGTATGTGTGAAGCATGGGAAGAAAATACTA
ATGCAGATGGATTCTCGTCTCACCAAGTTTGTGCAGGAAAAGAACAACCAACATCAGTG
CAAGATGAGTTTACATGCACTTGCTATTATGGGGGAAAGCAAGTGCTGAACTTCAAGCTCTC
TTGATGAATCAGTTAACAGTAAAGGGCTTGAAAAAGCTTGGCCAGTCTATAGAGTCATCA
TACTCCAGTATACAAAAATTGGTCATAAGTCATTTACAGAGTGGCTCGGAGTCTTTATTA
TACCATTTGAGTGAATTGAAAGGAATGGCTTCATGGAAGCAAAAATGAACTCTTGGGA
CTAGAGTCTGCAGGAATCGAAGAAGCTATAACTGCTGTGGTTCTTTTATACTCAAGGCA
AATGAAGTCTTCAAGTTATAGATAGTAGTATGAAAAACTTCAAAGCATTTTTTTTCGGTGG
CTTTATGTGGCAATGTTGAGAATGACAGAAGACCATGTGCTTCCCGAGCTGAATAAGATG
ACTCAGAAAAGATATCACATTTGTTGCTGAATTTCTTACTGAACATTTCAATGAGGCTCCA
GACCTTTATAATCGAAAAGGAAAATACTTTAACGTTGAAAGAGTTGGTCAGTACTTGAAA
GATGAAGATGATGATCTTGTGTCACCCCTAACACAGAAGGAAACCAGTGGTATGACTTT
CTTCAAAATAGCAGCCACCTTAAAGAAAGTCTTTGCTGTTTCTTATTATCCTCGAAAA
TCATTGCATTTTGTGAAAAGGCGGATGGAGAATATTATTGATCAGTGTGCAAAAAGCCA
GCAGATGAATTGAAAATCGATGAATCAAGCAATCTGTATTCCATTGTATAGAGATACC
AGAAGTGAGGATTCTACAGTAGATTGTTCAAATTTCTTTTCTGTGGAATAATAAAACT
TCAAATCTACATTATCTTCTTTTACTATTCTAGAAGATTCACTTTATAAAATGTGCATC
TTAAGGAGACATACTGATATTTCTCAATCTGTGAGTAATGGACTAATTGCTATTAATTT
GGGAGCTTTACATATGCCACAACAGAAAAGTCAGAAGAAGCATCTACAGTTGTTTAGAT
GCACAGTTTTATGATGATGAAACTGTAACAGTAGTTCTTAAAGACACTGTAGGACGTGAA
GGAAGAGATAGACTCTTGGTCCAGCTGCCTTTGTCTTTAGTATATAACAGTGAAGATTCT
GCAGAATATCAGTTCAGTGGGACTTATTCTACAAGGCTAGATGAACAGTGTAGTGTCTATT
CCCACCCGTACCATGCAATTTTGGAAAGCACTGGAGATTACTGGAAGTATGAAAGCACAG
TATGTTGCTGGGAATGGTTTTCGAAAAGTGTCTGTGTGTTAAGCTCAAATCTTCTGTCAT
GTGAGAGTATTTGAAATGGACATAGATGATGAATGGGAGCTCGATGAGTCTTCAGATGAA
GAGGAGGAGGCCAGTAATAAGCCTGTAAAAATAAAGGAAGAAGTGTGTCGGAGTCAGAG
GCAGAGAACCAACAAGCTGGTGTGCCGCTTTAGCTCCAGAGATAGTCATTAAAGTGGAA
AACTTGACCCTGAGCTAGACTCCTAA

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Restriction Sites: Please inquire

ACCN: NM_013367

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_013367.2](#), [NP_037499.2](#)

RefSeq Size: 2701 bp

RefSeq ORF: 2427 bp

Locus ID: 29945

UniProt ID: [Q9UJX5](#)

Cytogenetics: 4p15.2

Protein Families: Druggable Genome

Protein Pathways: Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation, Ubiquitin mediated proteolysis

Gene Summary:

A large protein complex, termed the anaphase-promoting complex (APC), or the cyclosome, promotes metaphase-anaphase transition by ubiquitinating its specific substrates such as mitotic cyclins and anaphase inhibitor, which are subsequently degraded by the 26S proteasome. Biochemical studies have shown that the vertebrate APC contains eight subunits. The composition of the APC is highly conserved in organisms from yeast to humans. The exact function of this gene product is not known. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013] Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the 3' end of an exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is 1 aa shorter compared to isoform 1.