

Product datasheet for **SC115268**

Apc2 (ANAPC2) (NM_013366) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apc2 (ANAPC2) (NM_013366) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apc2
Synonyms:	APC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115268 sequence for NM_013366 edited (data generated by NextGen Sequencing)

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ATGGCGCGCGCAGTTGTGGTGGCGGAGGGGGACAGCGACTCCCGGCCCGGACAGGAGTTG
TTAGTGGCCTGGAACACCGTGAGCACCGGCTGGTGCCGCGGCTGCGCTGGGGCTGGTG
TCTTCCCGGACCAGCGGTGACGTCCCGCAAAGGAAGAGAGCTCCGGCGGCGGTGGAG
GTTCTGAGGGGCCACGGCTACACTCGTCTGGAGGAGTGGTTCGTGGAGGTGCTGCAG
AACGACTGACAGCCCAACATCTCCCTGAGTTCTGGAATGCCATCTCCAATGCGAGAAC
TCTGCGGATGAGCCCCAGTGCCTTTTGCTACTCCTTGACGCTTTTGGCCTGCTGGAGAGC
CGCCTGGATCCCTACCTGCGTAGCTAGAGCTGCTGGAGAAATGGAAGTCCGCTGGGCTTG
CTGATGGGCACTGGTGTCTCAGGGGCTGCGAGAAGAAGTCCACACTATGTTGCGCGGAGTC
TTGTTCTTTAGCACCCCAAGACCTTCCAAGAGATGATCCAGCGTCTGTATGGGTGCTTC
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TGTGCAGGGTGCAGCAGTGACAAGCAACAGTGTGGTGTGCGCAGGCTCTGGAGCAGTTC
CATCAGCTCAGCCAGGTCTTACACAGGCTCAGTCTGCTGGAGCGGTCAGTGCCGAGGCT
GTGACCACCACCTGCACCAGGTGACCCGGGAGAGGATGGAGGACCGTTGCCGGGGCGAG
TACGAGCGCTCCTTCTGCGTGAGTTCCACAAGTGGATCGAGCGGGTGGTCCGGCTGGCTC
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TGTGAGCCTATCCGCGCTACCTGAGGACGCGGGAGGACACAGTGCAGGAGATTGTGGCT
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ATGCTGACCAACCTGGAGAGCCTCTCACTGGATCGTATCTACAACATGCTCCGCATGTTT
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AAGAAGGTGCGGGACCAGCAGCTCGTCTACTCGGCCGGCTTACCGCTGCCAAGAAC
TGCAGCTGA
    
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Clone variation with respect to NM_013366.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_013366 unedited
 TTGAGGGATTTTGAATACGATCTCACTATAGGGCGGCCGCAATTTCGCACGAGGCGCCG
 AGCGAATCTCGGAGTCGGTGGGTGCAGATGGCGGCGGCAGTTGTGGTGGCGGAGGGGGAC
 AGCGACTCCCGGCCGGACAGGAGTTGTAGTGGCTGGAACACCGTGAGCACCGGCCTG
 GTGCCCGCGCTGCGCTGGGGCTGGTGTCTCCCGACCAGCGGTGCAGTCCCGCCAAAG
 GAAGAGGAGCTCCGGGCGCGGTGGAGTTCTGAGGGGCCACGGGTACACTCGGTCTCTG
 GAGGAGTGGTTCGTGGAGGTGCTGCAGAACGATCTGCAGGCCAACATCTCCCTGAGTTC
 TGGAAATGCCATCTCCAATGCGAGAACTCTGCGGATGAGCCCCAGTGCCTTTTGCTACTC
 CTTGACGCTTTTGGCCTGCTGGAGAGCCGCTGGATCCCTACCTGCGTAGCCTAGAGCTG
 CTGGAGAAATGGACTCGCCTGGGCTTGCTGATGGGCACTGGTGTCTCAGGGGCTGCGAGAA
 GAAGTCCACACTATGTTGCTCGGAGTCTTGTCTTTAGCACCCCCAGAACCTTCCAAGAG
 ATGATCCAGCGTCTGTATGGGTGCTTCTTGAGAGTCTATATGCAGAGTAAGAGGAAGGGG
 GAAGGGGGCACAGACCCGGGACTGGAAGGGGAGCTGGACCAGCCGTTTGGCCGTCGCCCCG
 TACTACCGACTCCTGCAGAGCCCGCTGTGTGCAGGCTGCCACATTGACCAACCACAGTGC
 TGGGTGTGCGCAGCTCTGGAGCAGTTCTCAGCTTAACCAAGTCTTACACAGGCTAATTC
 TGCTGGAACAGCTCAATGCCGACGCTTGACCCCAACCTTGACCAGTGACCCGGTGAAA
 GGATGAAGGAACCTTTGCCGGGGCGAGATCCAACCTTCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_013366 unedited
 GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGATGATCTGACTTGTAACT
 GCACACTGCGGGGTGGGGTGGGCATGCTCCTCAGCAGTGCATTCTGGGACACGGGCGG
 GCGGGGGCTGGCACGGGAGGACGAGAGCACCTGCAGGGCAGCGCTGGCGGGCGGGCGGG
 CGGGCGGGCGATGTGTCAGCTGCAGTTCTTGGGCAGGCGGTAGACGCCGCGCGAGTAGAC
 GAGCTGTGGTCCCGCACCTTCTTCTGCAGGTAGCCCTGCAGCTCCTGCAGGTAACTCTC
 GGCCAGTGCAGGCCAGTCAACAAACATGCGGAGCATGTTGTAGATACGATCCAGTGA
 GAGGCTCTCCAGTGGTGCAGCATGGCCTGGATGTACGTCCAGAAGAGCAGCAGCTCCTC
 CTCCTTCTGGTCCGGCTGGGAGGCCATGCCGGAGTCGCTCTCGTCTCAATGAG
 CACCATGTTGTCCCGTCTGAGGCCGCTCCTCCTCAATGACAGAGAAGGTGCCGGGGG
 CTCCTCACGCAGCACACCCTGCTGCAGCCACACGGACATCCGCCCGCCAGCAGCGCCAC
 GGGCATCTTACCAGCTTGTCTCAGTTCTCCAGGGTCCAGTGGCTTGGTCTGAAATA
 CAGCAAGATCACCGCCTGTACTGGGGTGACCGCACAGACAGCGTGCAGGTCGGCCAGCTCC
 ACGTCCATGTCCACAGGCCAGGTGTGCTTCCAAGTGCAGTCCGATGCCCTGAGCTGCTA
 TACTTCTGCAGTAGCCTCAGGCCTGCCTGAATCCTGGGGACTCCACTTTCGTCTGAGGC
 CGGCCNACTACTTCCAGAGACAGGTAACCCCAACGTGGTGTCTTGTGGCGTTATCTT
 CTCGGATGTGCTTGGCGGGAGTCCCAGTCTTAATGATTACAAGCCTGGCTCCCN

Restriction Sites:

NotI-NotI

ACCN:

NM_013366

Insert Size:

2800 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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_013366.3 , NP_037498.1
RefSeq Size:	2733 bp
RefSeq ORF:	2469 bp
Locus ID:	29882
UniProt ID:	Q9UJX6
Cytogenetics:	9q34.3
Domains:	CULLIN
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation, Ubiquitin mediated proteolysis
Gene Summary:	<p>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 product of this gene is a component of the complex and shares sequence similarity with a recently identified family of proteins called cullins, which may also be involved in ubiquitin-mediated degradation. [provided by RefSeq, Jul 2008]</p>