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Product datasheet for SC114241

Apc11 (ANAPC11) (NM_016476) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apc11 (ANAPC11) (NM_016476) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apc11
Synonyms:	APC11; Apc11p; HSPC214
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_016476 edited ATGAAGGTGAAGATTAAGTGCTGGAACGGCGTGGCCACTTGGCTCTGGGTGGCCAACGAT GAGAACTGTGGCATCTGCAGGATGGCATTTAACGGATGCTGCCCTGACTGCAAGGTGCCC GGCGACGACTGCCCGCTGGTGTGGGGCCAGTGCTCCCACTGCTTCCACATGCATTGCATC CTCAAGTGGCTGCACGCACAGCAGGTGCAGCAGCACTGCCCCATGTGCCGCCAGGAATGG AAGTTCAAGGAGTGA
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_016476 unedited CACGAGGTCGGCGGGCGCTGTTGAGGGAGTCGGGCCGCGACTGTGGTCGTTTTTATACCT TCCCGCGCGGACGCCGGCGCTGCCAACGGAAGGGCGGGTAGGGCGAGACGGAGTTTCGTC ATGTTGGCCAGGCCCATTTGAGATCTTTGAAGATATCCTCAACGTGAGGCTCTGCTGCCA TGAAGGTGAAGATTAAGTGCTGGAACGGCGTGGCCACTTGGCTCTGGGTGGCCAACGATG AGAACTGTGGCATCTGCAGGATGGCATTTAACGGATGCTGCCCTGACTGCAAGGTGCCCG GCGACGACTGCCCGCTGGTGTGGGGCCAGTGCTCCCACTGCTTCCACATGCATTGCATCC TCAAGTGGCTGCACGCACAGCAGGTGCAGCAGCACTGCCCCATGTGCCGCCAGGAATGGA AGTTCAAGGAGTGAGGCCCGACCTGGCTCTCGCTGGAGGGGCATCCTGAGACTCCTTCCT CATGCTGGCGCCGATGGCTGCTGGGGACAGCGCCCCTGAGCTGCAACAAGGTGGAAACAA GGGCTGGAGCTGCGTTTGTTTTGCCATCACTATGTTGACACTTTTATCCAATAAGTGAAA ACTCATTAAACTACTCAAATCTTGCTGGAGGCCTCTGGGTGCCTGTGTTCTCGGCATATA GATGTGGTCTCGGTGTGTTTTGATATGAAAACTCTCATGAATAAACATCTCCGTGAAACG CC
Restriction Sites:	NotI-NotI
ACCN:	NM_016476
Insert Size:	950 bp

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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
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_016476.10, NP_057560.8
RefSeq Size:	892 bp
RefSeq ORF:	255 bp
Locus ID:	51529
UniProt ID:	Q9NYG5
Cytogenetics:	17q25.3
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation, Ubiquitin mediated proteolysis

Gene Summary: Together with the cullin protein ANAPC2, constitutes the catalytic 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. May recruit the E2 ubiquitin-conjugating enzymes to the complex.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) contains an alternate exon in the 5' UTR and lacks an exon in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (2) has a distinct C-terminus and is shorter than isoform 1. Variants 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11 encode the isoform 2.