

Product datasheet for **RG226883**

Apc5 (ANAPC5) (NM_001137559) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apc5 (ANAPC5) (NM_001137559) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANAPC5
Synonyms:	APC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226883 representing NM_001137559
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGAAGCGGAGTTGAAGGATATGGAACAGTTTTTTGATGACCTTTCAGATTCTTCTCTGGAAGT
 AACAGAGGTTTACAAAAAAGTGTAGTAGGTTTGTCTGCGTCACATGATCTTGGCCTACAGTAAGCT
 TTCTTTCAGCAAGTGTAACTGTACTGCCCTTCAGCAGTACTTCCAGAATGGTGAAAAAGACA
 GTGGAGGATGCTGATATGGAAGTACCAGTAGAGATGAGGGTGAAGAAAAATGGAAAAAGAACTTG
 ATGTATCTGTAAGAGAAGAGGAGGTATCTTGCAGTGGCCCTCTGTCCAAAAACAAGCAGAATTTTTCT
 TTCTCAACAGGCTTCTTGTAAAGAATGATGAGACTAAGGCCCTCACTCCAGCTTCTTGCAGAAGGAA
 TTAACAATTTGTTGAAATTAATCCTGATTTGCTGAAGCGCATTATCTCAGCTACTTAAACAACCTCC
 GTGTCCAAGATGTTTTAGTTCACACACAGTCTCCTCCATTATTTGATCGTCTGATTCTTACCGGAGC
 CGAAAGCAAAAGTAATGGGAAGAGGGCTATGGCCGGAGCTTGAGATACGCCGCTCTGAATCTTGCCGCC
 CTGCACTGCCGCTTCGGTCACTATCAACAGGCAGAGCTCGCCCTGCAGGAGGCAATTAGGATTGCCCAGG
 AGTCCAACGATCACGTGTCTCCAGCACTGTTTGAGCTGGCTTATGTGCTGGGCGAGAAGAGATCCGA
 TAGCTATGTTCTGCTGGAGCATTCTGTGAAGAAGGCAGTACATTTGGGTTACCGAGAGCTTTTGTGGG
 AAGACGGCAAACAAGCTGATGGATGCCCTAAAGGACTCCGACCTCCTGCACTGGAACACAGCCTGTGAG
 AGCTCATCGATATCAGCATCGCACAGAAAACGGCCATCTGGAGGCTGTATGGCCGCGACCATGGCACT
 GCAACAGGCCAGATGTTGCTGAGCATGAACAGCCTGGAGGCGGTGAATGCGGGCGTGCAGCAGAACAAC
 ACAGAGTCTTTGCTGTGCACTCTGCCACCTCGCAGAGCTACACGGGAGCAGGGCTGTTTTGCTGCAG
 CTTCTGAAGTGTAAAGCACTTGAAGGAACGATTTCCGCCTAATAGTCAGCACGCCAGTTATGGATGCT
 ATGTGATCAAAAAATACAGTTTGACAGAGCAATGAATGATGGCAAATATCATTGGCTGATTCACTTGTT
 ACAGGAATCACAGCTCTCAATAGCATAGAGGGTGTATAGGAAAAGCGGTTGATTACAAGCTCAGAACC
 AAATGTCAGAGGCACATAAGCTTTTACAAAAATTGTTGGTTCATTGTGAGAACTGAAGAACACAGAAAT
 GGTGATCAGTGTCTACTGTCCGTGGCAGAGCTGTACTGGCGATCTTCTCCCCTACCATCGCGTGCC
 ATGCTCCTGCAGGCTCTGGCCCTCTCAAGGAGTACCGGTTACAGTACTTGGCCTCTGAAACAGTGTGA
 ACTTGGCTTTTGCAGCTCATTCTTGAATCCAGAACAGGCCCTAAGTCTTCCACATGGCCATCGA
 GCCATCTTGGCTGACGGGGCTATCCTGGACAAAGGTCGTGCCATGTTCTTAGTGGCCAAGTGCCAGGTG
 GCTTCAGCAGCTTCTACGATCAGCCGAAGAAAGCAGAAGCTCTGGAGGCTGCCATCGAGAACCTCAATG
 AAGCCAAGAACTATTTTGCAAAGGTTGACTGCAAAGAGCGCATCAGGGAGGTCGTTACTTCCAGGCCAG
 ACTCTACCATAACCTGGGGAAGCCAGGAGAGGAACCGGTGTGCGATGCTCTCCGGCAGCTGCATCAG
 GAGCTGCCCTCTCATGGGTACCCTTGATAAACCATCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226883 representing NM_001137559
 Red=Cloning site Green=Tags(s)

MAEGLKDMEQFFDDLSDSFSGTEPEVHKTSVVGFLFRHMILAYSKLSFSQVFKLYTALQQYFQNGEKKT
 VEDADMELTSRDEGERKMEKEELDVSVREEEVSCSGPLSQKQAEFFLSQQASLLKNDKALTPASLQKE
 LNNLLKFNPDFAEAHYLSYLNLRVQDFVSSHSLHLYFDRLILTGAESKSNGEEGYGRSLRYAALNLAA
 LHCRFGHYQQAELALQEAIRIAQESNDHVCLQHCLSWLYVLGQKRSDSYVLEHSVKKAVHFGLPRAFAG
 KTANKLMDALKSDLLHWKHSLSLIDISIAQKTAIWRLYGRSTMALQQAQMLLSMNSLEAVNAGVQNN
 TESFAVALCHLAELHAEQGCFAAASEVLKHLKERFPNSQHAQLWMLCDQKIQFDRAMNDGKYHLADSLV
 TGITALNSIEGVYRKAVVLQAQNMSEAHKLLQKLLVHCQKLKNTMVISVLLSVAELYWRSSPTIALP
 MLLQALALSKEYRLQYLASETVLNLAFAQLILGIPEQALSLLHMAIEPILADGAILDKGRAMFLVAKCQV
 ASAASYDQPKKAEALEAAIENLNEAKNYFAKVDCERIRDVVYFQARLYHTLGKTQERNRCAMFLRQLHQ
 ELPSHGVPILNHL

TRTRPLE – GFP Tag – V

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:	<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_001137559.1 , NP_001131031.1
RefSeq Size:	2364 bp
RefSeq ORF:	1932 bp
Locus ID:	51433
UniProt ID:	Q9UJX4
Cytogenetics:	12q24.31
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation, Ubiquitin mediated proteolysis
Gene Summary:	This gene encodes a tetratricopeptide repeat-containing component of the anaphase promoting complex/cyclosome (APC/C), a large E3 ubiquitin ligase that controls cell cycle progression by targeting a number of cell cycle regulators such as B-type cyclins for 26S proteasome-mediated degradation through ubiquitination. The encoded protein is required for the proper ubiquitination function of APC/C and for the interaction of APC/C with transcription coactivators. It also interacts with polyA binding protein and represses internal ribosome entry site-mediated translation. Multiple transcript variants encoding different isoforms have been found for this gene. These differences cause translation initiation at a downstream AUG and result in a shorter protein (isoform b), compared to isoform a. [provided by RefSeq, Nov 2008]