

## Product datasheet for **RG232012**

### **Apc10 (ANAPC10) (NM\_001256706) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Apc10 (ANAPC10) (NM\_001256706) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ANAPC10  
**Synonyms:** APC10; DOC1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG232012 representing NM\_001256706  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTACACCAAACAAGACACCTCCTGGTGCTGACCCCAAGCAGTTGGAAAGGACTGGAACAGTACGGG  
AAATTGGGTCACAAGCTGTTTGGTCACTCTCATCTTGCAAACCAGGATTTGGAGTGGATCAGTTACGAGA  
TGACAATCTAGAACTTATTGGCAATCAGATGGTCCCAGCCTCATTTAGTGAACATCCAATTCAGAAGA  
AAAACAACAGTGAAGACATTATGTATTTATGCAGACTACAAATCTGATGAAAGCTATACTCCAAGCAAGA  
TCTCAGTCAGAGTAGGAAATAATTTTCAACCTTCAAGAAATTCGGCAACTTGAGTTGGTGAACCAAG  
TGGCTGGATTCATGTTCCCTAACTGACAATCATAAGAAGCCAACCTCGTACATTCATGATACAGATTGCT  
GTTCTAGCCAATCACCAGAAATGGAAGAGACACCCATATGAGACAAATTAATATACACACCAGTAGAAG  
AGAGCTCCATTGGTAAATTTCTAGATGTACAACCTATAGATTTTCATGATGTATCGTTCAATAAGG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG232012 representing NM\_001256706  
**Red=Cloning site Green=Tags(s)**

MTTPNKTPPGADPKQLERTGTVREIGSQAVWSLSSCKPGFGVDQLRDDNLETYWQSDGSQPHLVNIQFRR  
KTTVKTLCIYADYKSDSYTPSKISVRVGNFNHNLQEIRQLELVEPSGWIHVPLTDNHHKPTRTFMIQIA  
VLANHQNGRDTHMRQIKIYTPVEESSIGKFPRCTTIDFMMYRSIR

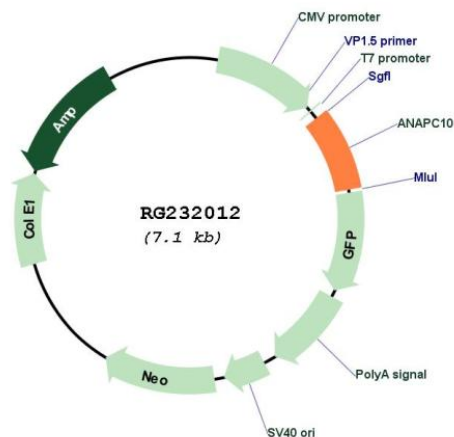
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001256706

**ORF Size:** 555 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001256706.2</a></u>
<b>RefSeq Size:</b>	1468 bp
<b>RefSeq ORF:</b>	558 bp
<b>Locus ID:</b>	10393
<b>UniProt ID:</b>	<u><a href="#">Q9UM13</a></u>
<b>Cytogenetics:</b>	4q31.21
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation, Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	ANAPC10 is a core subunit of the anaphase-promoting complex (APC), or cyclosome, a ubiquitin protein ligase that is essential for progression through the cell cycle. APC initiates sister chromatid separation by ubiquitinating the anaphase inhibitor securin (PTTG1; MIM 604147) and triggers exit from mitosis by ubiquitinating cyclin B (CCNB1; MIM 123836), the activating subunit of cyclin-dependent kinase-1 (CDK1; MIM 116940) (summary by Wendt et al., 2001 [PubMed 11524682]).[supplied by OMIM, Feb 2011]