

Product datasheet for **RG235707**

Apc10 (ANAPC10) (NM_001256711) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apc10 (ANAPC10) (NM_001256711) 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: >RG235707 representing NM_001256711.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACTACACCAAACAAGACACCTCCTGGTGCTGACCCCAAGCAGTTGGAAAGGACTGGAACAGTACGG
GAAATTGGGTCAAGCTGTTTGGTCACTCTCATCTTGCAAACCAGGATTTGGAGTGGATCAGTTACGA
GATGACAATCTAGAACTTATTGGCAATCAGATGGTCCAGCCTCATTTAGTGAACATCCAATTCAGA
AGAAAAACAACAGTGAAGACATTATGTATTTATGCAGACTACAAATCTGATGAAAGCTATACTCCAAGC
AAGATCTCAGTCAGAGTAGGAAATAATTTTCAACAACCTCAAGAAATTCGGGCTTTGGTATCAGGA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235707
Blue=ORF Red=Cloning site Green=Tag(s)

```
MTTPNKTPPGADPKQLERTGTVREIGSQAVWSLSSCKPGFVDQLRDDNLETYWQSDGSQPHLVNIQFR
RKTTVKTLCIYADYKSDESYTPSKISVRVGNNFHNLQEIRALVSG
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



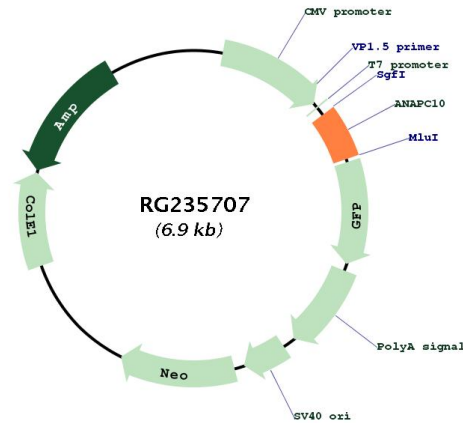
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Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001256711

ORF Size: 342 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](#)

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|--------------------------|---|
| 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). |
| RefSeq: | NM_001256711.1 , NP_001243640.1 |
| RefSeq Size: | 1579 bp |
| RefSeq ORF: | 345 bp |
| Locus ID: | 10393 |
| Cytogenetics: | 4q31.21 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation, Ubiquitin mediated proteolysis |
| MW: | 13.2 kDa |
| Gene Summary: | 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] |