

Product datasheet for **RG227559**

Apc7 (ANAPC7) (NM_001137664) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apc7 (ANAPC7) (NM_001137664) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANAPC7
Synonyms:	APC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227559 representing NM_001137664
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCCGGCGACGCCCATTTTGGAGTCTTCCCTAAGGATCCTCTACCGGCTTTTCGAGTCAGTGC
 TGCCGCCGCTGCCGCGGCTTTGCAGAGCAGGATGAATGTGATAGACCAGTGCGGGACATGGCGGCCG
 GGGGCTGCACTCCAACGTGCGGCTCCTCAGCAGCTTGTTACTTACAATGAGTAATAACAACCTGAGTTA
 TTCTCCACCTCAGAAGTACCAGCTTTTGGTGTATCATGCAGATTCTCTTTTCATGATAAGGAATATC
 GGAATGCTGTGAGTAAGTATACCATGGCTTTACAGCAGAAGAAAGCGCTAAGTAAAACCTCAAAGTGAG
 ACCTTCAACTGGAATTTGTCATCTACTCCACAAAGTCAGTGTCTTCCATCTGAAATTGAAGTGAATAC
 AAAATGGTGAATGTTATACAATGCTAAAACAAGATAAAGATGCCATTGCTATACTTGTGGGATCCCTT
 CAAGACAAAGAACTCCAAAATAAACATGATGCTGGCAAACCTGTACAAGAAGGCTGGTCAGGAGCGCC
 TTCAGTACCAGCTATAAGGAGGTGCTGAGGCAGTGCCATTAGCCCTTGATGCCATTCTAGGCTTGTG
 TCCTTTCTGTAAAAGGGGACAGAGGTGGCATCCATGACAATGAATGTGATCCAAACCGTGCCTAACTGG
 ACTGGCTCTGTGTGGATCAAAGCGTATGCTTTTGTGCACACTGGTGACAACCTCAAGAGCAATCAGTAC
 CATCTGTTCACTAGAGAAAAATCCTTATTGCGAGATAACGTGGACCTATTGGGAAGCTTGGCAGATCTG
 TACTTCAGAGCTGGAGACAATAAAACTCTGTCCTCAAGTTTGAACAGGCACAGATGTTGGATCCTTATC
 TGATAAAAGGAATGGATGTATATGGCTACCTACTGGCACGAGAAGGGCGGCTAGAGGATGTTGAGAACT
 TGGATGCCGCTTTTCAATATCTCTGATCAGCATGCAGAACCGTGGTGGTTTCTGGCTGCACAGCTTC
 TATAGCAAACGCTACTCCGGGCCCTCTATTTAGGAGCCAAGGCCATTGAGTGAACAGTAAATAGTGTT
 AAGCTCTGCTACTTAAGGGAGCAGCACTTAGGAACATGGGCAGAGTCCAAGAAGCAATAATCCACTTTCG
 GGAGGCCATACGGCTCGCACCTTGTGCTTAGATTGTTATGAAGTCTTATCGAATGTTACTTAGCTCC
 AACAGTATTGAGAAGCAATGGTAAATGGCTAACAACTTTACAAAACCTCTGGGAGCAATGCACAGACCC
 TTACCCTTTTAGCCACCGTTTGTCTTGAAGACCCAGTGACACAGGAGAAAGCCAAAACATTATTAGATAA
 AGCCCTGACCCAAAGGCCAGATTACATTAAGGCTGTGGTGAAGAAAGCAGAACTACTTAGCAGAGAACAG
 AAATATGAAGATGGAATTGCTTTGCTGAGGAACGCACTGGCTAATCAGAGTACTGTGCTCCTGCATCGGA
 TCCTAGGAGATTCCTTGTAGCTGTCAATGAGTATCAGGAGGCAATGGACCAGTATAGTATAGCACTAAG
 G

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227559 representing NM_001137664
 Red=Cloning site Green=Tags(s)

MDPGDAAILLESSLRILYRLFESVLPPLPAALQSRMNVIDHVRDMAAAGLHSNVRLSSLLLTMSNNPEL
 FSPPQKYQLLVYHADSLFHDKEYRNAVSKYTMALQKKALSKTSKVRPSTGNSASTPQSQCPLPSEIEVKY
 KMAECYTMLKQDKDAIAILDGIPSRQRTPKINMMLANLYKKAGQERPSVTSYKEVLRQCPLALDAILGLL
 SLSVKGAEVASMTMNIQTVPNLDWLSVWIKAYAFVHTGDNRAISTICSLEKKSLLRDNVDLLGSLADL
 YFRAGDNKNSVLKFEQAQMLDPYLKGMVDVYGYLLAREGRLEDVENLGCRLFNISDQHAEPWVVSCHSF
 YSKRYSRALYLGAKAIQLNSNSVQALLKGAALRNMGVQEAIIHFREAIRLAPCRLDCYEGLIECYLAS
 NSIREAMVMANNVYKTLGANAQTLTLLATVCLEDPVTQEKAKTLLDKALTRPDYIKAVVKAELLREQ
 KYEDGIALLRNALANQSDCVLHRILGDFLVAVNEYQEAMDQYSIALR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001137664
ORF Size:	1611 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.
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_001137664.1 , NP_001131136.1
RefSeq Size:	2224 bp
RefSeq ORF:	1512 bp
Locus ID:	51434
UniProt ID:	Q9UJX3
Cytogenetics:	12q24.11
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 proper protein ubiquitination function of APC/C and for the interaction of APC/C with certain transcription coactivators. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2008]