

Product datasheet for **RG204435**

Apoptosis inhibitor 5 (API5) (NM_006595) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apoptosis inhibitor 5 (API5) (NM_006595) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	API5
Synonyms:	AAC-11; AAC11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204435 representing NM_006595
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCACAGTAGAGGAGCTTTACCGCAATTATGGCATCTGGCCGATGCCACGGAGCAAGTGGCCAGC
 ATAAAGATGCCTATCAAGTGATATTGGATGGTGTGAAAGTGGTACTAAGGAAAAGCGATTAGCAGCTCA
 ATTTATCCGAAATCTTTAAGCATTTCAGCAATTGGCTGATTCTGCTATCAATGCACAGTTAGACCTC
 TGTGAGGATGAAGATGTATCTATTTCGACGTCAAGCAATTAAGAAGTGCCTCAATTTGCCACTGGAGAAA
 ATCTTCTCGAGTGGCAGATATACTAACGCACTTTTCAGACAGATGACTCTGCAGAAATTAACCTAGT
 GAACAATGCCCTATTAAGTATATTTAAATGGATGCAAAAGGGACTTTAGGTGGTTGTTACGCCAAATA
 CTTCAAGGAGAGGACATTGTTAGAGAACGAGCAATTAATTCCTTTCTACAAAACCTAAGACTTTACCAG
 ATGAAGTCTTAACAAAGGAAGTGAAGAGCTTATACTAACTGAATCCAAAAGGTCTAGAAGATGTGAC
 TGGTGAAGAATTTGTTCTATTTATGAAGATACTGTCTGGGTTAAAAGCTTACAGACAGTGAAGGAGA
 CAGCAACTTGTAGAGTTGGTGGCTGAACAGGCCGACCTAGAACAGACCTCAATCCCTCGGATCCTGACT
 GTGTGGACAGGCTCTTACAGTGCCTCGCAGGAGTACCCCTCTTCTCTAAAAATGTCCATTCACAAG
 GTTTGTGACATATTTCTGTGAGCAGGTTCTCCCTAACCTCGGTACCTTGACTACCCAGTGGAAAGTCTT
 GATATACAGTTGGAGGTATTGAAATTTGGCGGAGATGAGTTCATTTTGGTGACATGGAAAACTAG
 AAACAAATTTAAGGAACTATTTGATAAGTTATTGGAATACATGCCCTCCCTCCAGAAGAGGCAGAAAA
 TGGAGAGAATGCTGGTAAATGAAGAACCAAGCTACAGTTCAGTTATGTGGAATGTTTGTGTACAGTTTT
 CACCAGTTGGGCCGAAAACCTCCAGATTTCTTAACAGCCAACTGAATGCAGAAAAGCTCAAAGATTTCA
 AAATCAGGCTGCAGTACTTTGCACGGGCTGCAAGTTTATATCAGACAACCTCGCTTACGCTCCAGGG
 TAAAACGGGTGAGGCCTTAAAAACAGAAGAGAACAAGATTAAGTCGTTGCATTGAAAATAACAAACAAT
 ATCAATGTTTTAATCAAGGATCTCTCCACATTCCTCTTCTTATAAGAGCACAGTAACACTATCTGGA
 AACCTGTACAAAAGTTGAGATTGGGCAAAAGAGAGCCAGTGAAGATACTCACTCAGTTCCACCACCA
 GAAATCTTCAGCAGGACCAAAAAGAGATGCCAGGAGATTTATAACCCTCCAGTGGGAAATATAGCAGC
 AATTTGGGCACTTTAATTATGAGAGGAGCCTTCAGGGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG204435 representing NM_006595
 Red=Cloning site Green=Tags(s)

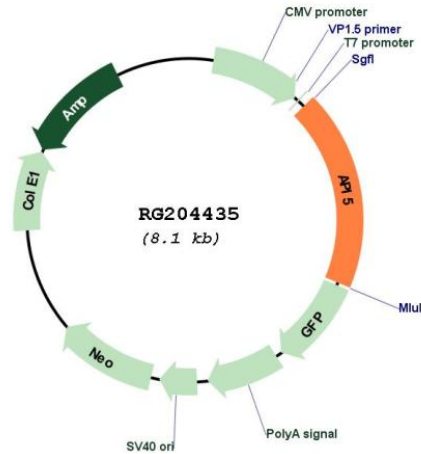
MPTVEEL YRNYGILADATEQVGQHKDAYQVILDGVKGGTKEKRLAAQFIPKFFKHFPPELADSAINAQLDL
 CEDEDVSI RRQAIKELPQFATGENLPRVADILTQLLQTDDSAEFNLVNNALLSIFKMDAKGTLGGLFSQI
 LQGEDIVRERAIKFLSTKLKTLPEVL TKEVEELILTESKKVLEDVTGEEFVLFMKILSGLKSLQTVSGR
 QQLVELVAEQADLEQTFNPSDPDCVDRLLQCTRQAVPLFSKNVHSTRFVYFCEQVLPNLGTLTPVEGL
 DIQLEVLKLLAEMSSFCGDMEKLETNLRKLFDKLLEYMPLPPEEAENGENAGNEEPKLFQSYVECLLYSF
 HQLGRKLPDFLTAKLNAEKLKDFKIRLQYFARGLQVYIRQLRLALQGKTGEALKTEENKIKVVALKITNN
 INVLIKDLFHIPPSYKSTVTL SWKPVQKVEIGQKRASEDTTSGSPPKSSAGPKRDARQIYNPPSGKYSS
 NLGNFNYSRSLQGK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Plasmid Map:



ACCN: NM_006595

ORF Size: 1512 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:

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_006595.4](#)

RefSeq Size: 3777 bp

RefSeq ORF: 1515 bp

Locus ID: 8539

UniProt ID: [Q9BZZ5](#)

Cytogenetics: 11p12

Protein Families: Druggable Genome

Gene Summary: This gene encodes an apoptosis inhibitory protein whose expression prevents apoptosis after growth factor deprivation. This protein suppresses the transcription factor E2F1-induced apoptosis and also interacts with, and negatively regulates Acinus, a nuclear factor involved in apoptotic DNA fragmentation. Its depletion enhances the cytotoxic action of the chemotherapeutic drugs. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]