

Product datasheet for **RG227863**

Apoptosis inhibitor 5 (API5) (NM_001142931) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apoptosis inhibitor 5 (API5) (NM_001142931) 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:

>RG227863 representing NM_001142931
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCACAGTAGAGGAGCTTTACCGCAATTATGGCATCCTGGCCGATGCCACGGAGCAAGTGGCCAGA
 TTCGACGTCAAGCAATTAAGAAGCTGCCTCAATTTGCCACTGGAGAAAATCTTCCTCGAGTGGCAGATAT
 ACTAACGCAACTTTTGCAGACAGATGACTCTGCAGAATTTAACCTAGTGAACAATGCCCTATTAAGTATA
 TTTAAAATGGATGCAAAAAGGGACTTTAGGTGGGTGTTCAGCCAAATACTTCAAGGAGAGGACATTGTTA
 GAGAACGAGCAATTAATTCCTTTCTACAAACTTAAGACTTTACCAGATGAAGTCTTAACAAAGGAAGT
 GGAAGAGCTTATACTAACTGAATCCAAAAGGTCTAGAAAGTGTGACTGGTGAAGAATTTGTTCTATTT
 ATGAAGATACTGTCTGGTTAAAAAGCTTACAGACAGTGAAGTGAAGACAGCAACTTGTAGAGTTGGTGG
 CTGAACAGGCCGACCTAGAACAGACCTCAATCCCTCGGATCCTGACTGTGTGGACAGGCTTTACAGTG
 CACTCGCAGGCAGTACCCTCTCTCTAAAAATGTCCATTCCACAAGGTTTGTGACATATTTCTGTGAG
 CAGGTTCTCCCTAACCTCGGTACCTTGACTACCCAGTGAAGGTCTTGATATACAGTTGGAGGTATTGA
 AATTGTTGGCGGAGATGAGTTCATTTTGTGGTGACATGGAAAACTAGAAAACAAATTTAAGGAACTATT
 TGATAAGTTATTGGAATACATGCCCTCCCTCCAGAAGAGGCAGAAAAATGGAGAGAATGCTGGTAATGAA
 GAACCAAGCTACAGTTCAGTTATGTGGAATGTTGTTGTACAGTTTTACCAGTTGGGCCGAAAACCTC
 CAGATTTCTTAACAGCCAACTGAATGCAGAAAAGCTCAAAGATTTCAAATCAGGCTGCAGTACTTTGC
 ACGGGGCTGCAAGTTTATATCAGACAACCTCGCTTAGCTCTCCAGGGTAAAACGGGTGAGGCCTAAAA
 ACAGAAGAGAACAAGATTAAGTCGTTGCATTGAAAATAACAAACAATATCAATGTTTTAATCAAGGATC
 TCTTCCACATTCCTCTTATAAAGACACAGTAACACTATCCTGGAAACCTGTACAAAAGGTTGAGAT
 TGGGCAAAAAGAGAGCCAGTGAAGATACAACCTCAGGTTACCACCAAGAAATCTTCAGCAGGACCAAAA
 AGAGATGCCAGGCAGATTTATAACCCTCCAGTGGGAAATATAGCAGCAATTTGGCAACTTTAATTATG
 AGAGGAGCCTTCAGGGAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227863 representing NM_001142931
 Red=Cloning site Green=Tags(s)

MPTVEEL YRNYGILADATEQVGGQIRRQAIKELPQFATGENLPRVADILTQLLQTDDSAEFNLVNNALLSI
 FKMDAKGTLGGLFSQILQGEDIVRERAIKFLSTKLKTLPDEVLTKEVEELILTESKKVLEDVTGEEFVLF
 MKILSGLKSLQTVSGRQQLVELVAEQADLEQTFNPSDPDCVDRLLQCTRQAVPLFSKNVHSTRFVTFYFCE
 QVLPNLGTLTTPVEGLDIQLEVLKLLAEMSSFCGDMEKLETNLRKLFDKLLEYMPLPPEEAENGENAGNE
 EPKLQFSYVECLLYSFHQLGRKLPDFLTAKLNAEKLKDFKIRLQYFARGLQVYIRQLRLALQGKTGEALK
 TEENKIKVVALKITNNINVLIKDLFHIPPYSYKSTVTLNWKPVQKVEIGQKRASEDTTSGSPPKSSAGPK
 RDARQIYNPPSGKYSSNLGNFNYSLSLQGK

TRTRPLE – GFP Tag – V

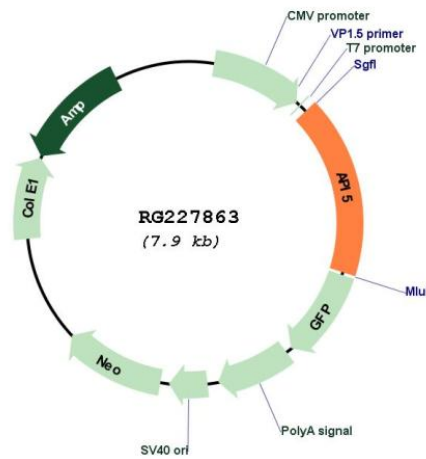
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001142931

ORF Size: 1350 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_001142931.2
RefSeq Size:	3615 bp
RefSeq ORF:	1353 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]