

Product datasheet for **RC227863**

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:	Myc-DDK
Symbol:	Apoptosis inhibitor 5
Synonyms:	AAC-11; AAC11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC227863 representing NM_001142931
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGACAGTAGAGGAGCTTTACCGCAATTATGGCATCCTGGCCGATGCCACGGAGCAAGTGGCCAGA
 TTCGACGTCAAGCAATTAAGAAGCTGCCTCAATTTGCCACTGGAGAAAATCTTCCTCGAGTGGCAGATAT
 ACTAACGCAACTTTTGCAGACAGATGACTCTGCAGAATTTAACCTAGTGAACAATGCCCTATTAAGTATA
 TTTAAATGGATGCAAAAAGGGACTTTAGGTGGGTGTTCAGCCAAATACTTCAAGGAGAGGACATTGTTA
 GAGAACGAGCAATTAATTCCTTTCTACAAAATTAAGACTTTACCAGATGAAGTCTTAACAAAGGAAGT
 GGAAGAGCTTATACTAATGAATCCAAAAGGTCCTAGAAGATGTGACTGGTGAAGAATTTGTTCTATTT
 ATGAAGATACTGTCTGGGTTAAAAGCTTACAGACAGTGAAGTGAAGACAGCAACTGTAGAGTTGGTGG
 CTGAACAGGCCGACCTAGAACAGACCTCAATCCCTCGGATCCTGACTGTGTGGACAGGCTTTACAGTG
 CACTCGCAGGCAGTACCCTCTCTCTAAAAATGTCCATCCACAAGGTTTGTGACATATTTCTGTGAG
 CAGGTTCTCCCTAACCTCGGTACCTTGACTACCCAGTGAAGGCTTGTATATACAGTTGGAGGATTGA
 AATTGTTGGCGGAGATGAGTTCATTTTGTGGTGACATGGAAAACTAGAAAACAAATTTAAGGAACTATT
 TGATAAGTTATTGGAATACATGCCCTCCCTCCAGAAGAGGCAGAAAAATGGAGAGAATGCTGGTAATGAA
 GAACCAAGCTACAGTTCAGTTATGTGGAATGTTGTTGTACAGTTTTACCAGTTGGGCCGAAAACCTTC
 CAGATTTCTTAACAGCCAAACTGAATGCAGAAAAGCTCAAAGATTTCAAATCAGGCTGCAGTACTTTGC
 ACGGGGCTGCAAGTTTATATCAGACAACCTCGCTTAGCTCTCCAGGGTAAAACGGGTGAGGCCTAAAA
 ACAGAAGAGAACAAGATTAAGTCGTTGCATTGAAAATAACAAACAATATCAATGTTTTAATCAAGGATC
 TCTCCACATTCCTCTTATAAGAGCACAGTAACACTATCCTGGAACTGTACAAAAGGTTGAGAT
 TGGGCAAAAGAGAGCCAGTGAAGATACAACCTCAGGTTACCACCCAAGAAATCTTCAGCAGGACCAAAA
 AGAGATGCCAGGCAGATTTATAACCTCCAGTGGGAAATATAGCAGCAATTTGGCAACTTTAATTATG
 AGAGGAGCCTTCAGGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227863 representing NM_001142931
 Red=Cloning site Green=Tags(s)

MPTVEELYRNYGILADATEQVQGIRRQAIKELPQFATGENLPRVADILTQLLQTDDSAEFNLVNNALLSI
 FKMDAKGTLGGLFSQILQGEDIVRERAIKFLSTLKLTPDEVLTKEVEELILTESKKVLEDVTGEEFVLF
 MKILSGLKSLQTVSGRQQLVELVAEQADLEQTFNPSDPDCVDRLLQCTRQAVPLFSKNVHSTRFVTFYFCE
 QVLPNLGTLTTPVEGLDIQLEVLKLLAEMSSFCGDMEKLETNLRKLFDKLLEYMPLPPEEAENGENAGNE
 EPKLQFSYVECLLYSFHQLGRKLPDFLTAKLNAEKLKDFKIRLQYFARGLQVYIRQLRLALQKGTGEALK
 TEENKIKVVALKITNNINVLKDLFHIPPSYKSTVTLSWKPVQKVEIGQKRASEDTTSGSPPKSSAGPK
 RDARQIYNPPSGKYSSNLGNFNYSLSLQGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8037_c10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


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:

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 ORF: 1353 bp

Locus ID: 8539

UniProt ID: [Q9BZZ5](#)

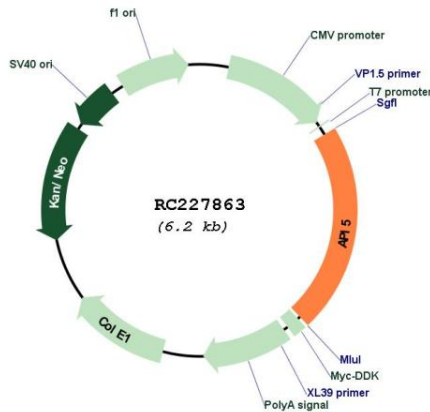
Cytogenetics: 11p12

Protein Families: Druggable Genome

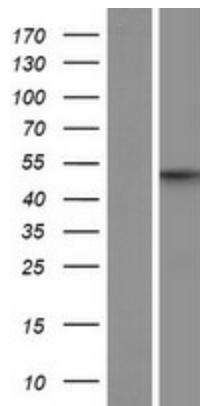
MW: 50.6 kDa

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]

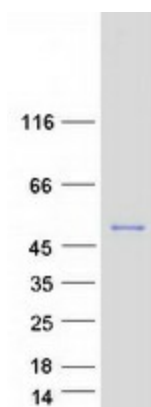
Product images:



Circular map for RC227863



Western blot validation of overexpression lysate (Cat# [LY428299]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227863 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified API5 protein (Cat# [TP327863]). The protein was produced from HEK293T cells transfected with API5 cDNA clone (Cat# RC227863) using MegaTran 2.0 (Cat# [TT210002]).