

Product datasheet for RC233788

Apoptosis inhibitor 5 (API5) (NM_001243747) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apoptosis inhibitor 5 (API5) (NM_001243747) 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)
ORF Nucleotide Sequence:	>RC233788 representing NM_001243747 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGACAGTAGAGGAGCTTTACCGCAATTATGGCATCCTGGCCGATGCCACGGAGCAAGTGGCCAGC
ATAAAGATGCCTATCAAGTGATATTGGATGGTGTGAAAGGTGGTACTAAGGAAAAGCGATTAGCAGCTCA
ATTTATCCGAAATTCCTTAAGCATTTCAGCAATTGGCTGATTCTGCTATCAATGCACAGTTAGACCTC
TGTGAGGATGAAGATGTATCTATTGACGTCAGCAATTAAGAAGTGCCTCAATTTGCCACTGGAGAAA
ATCTTCTCGAGTGGCAGATATACTAACGCAACTTTTGCAGACAGATGACTCTGCAGAATTTAACCTAGT
GAACAATGCCCTATTAAGTATATTTAAAATGAAAAACTAGAAACAAATTTAAGGAAACTATTTGATAAG
TTATTGGAATACATGCCCTCCCTCCAGAAAGAGGAGAAAATGGAGAGAATGCTGGTAATGAAGAACCCA
AGCTACAGTTCAGTTATGTGGAATGTTTGTGTACAGTTTACCAGTTGGGCCGAAAACCTCCAGATTT
CTTAACAGCCAACTGAATGCAGAAAAGCTCAAAGATTTCAAATCAGGCTGCAGTACTTTGCACGGGGC
CTGCAAGTTTATATCAGACAACCTCGCTTAGCTCTCCAGGGTAAAACGGGTGAGGCCTTAAAAACAGAAG
AGAACAAGATTAAGTCGTTGCATTGAAAATAACAAACAATATCAATGTTTTAATCAAGGATCTCTTCCA
CATTCTCCTTCTATAAGAGCACAGTAACACTATCCTGGAAACCTGTACAAAAGTTGAGATTGGGCAA
AAGAGAGCCAGTGAAGATACAACCTCAGGTTACCACCCAAGAAATCTTCAGCAGGACCAAAAAGAGATG
CCAGGCAGATTTATAACCCTCCCAGTGGGAAATATAGCAGCAATTTGGCAACTTTAATTATGAGAGGAG
CCTTCAGGGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233788 representing NM_001243747
Red=Cloning site Green=Tags(s)

MPTVEELYRNYGILADATEQVGQHKDAYQVILDGVKGGTKEKRLAAQFIPKFFKHPELADSAINAQLDL
 CEDEDVSI RRQAIKELPQFATGENLPRVADILTQLQTDDSAEFNLVNNALLSIFKMEKLETNLRKLFDK
 LLEYMPLPPEEAENGENAGNEEPKLFQFSYVECLLYSFHQLGRKLPDFLTAKLNAEKLKDFKIRLQYFARG
 LQVYIRQLRLALQGKTGEALKTEENKIKVVALKITNNINVLKIDLFHIPPSSYKSTVTLSWKPVQKVEIGQ
 KRASEDTTSGSPPKKSSAGPKRDARQIYNPPSGKYSSNLGNFNYSRLQ GK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001243747

ORF Size: 993 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_001243747.2](#)

RefSeq Size: 3257 bp

RefSeq ORF: 996 bp

Locus ID: 8539

UniProt ID: [Q9BZZ5](#)

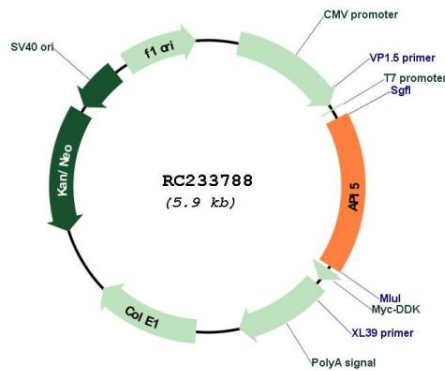
Cytogenetics: 11p12

Protein Families: Druggable Genome

MW: 38 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 RC233788