

Product datasheet for **RG227839**

Apoptosis inhibitor 5 (API5) (NM_001142930) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apoptosis inhibitor 5 (API5) (NM_001142930) 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:

>RG227839 representing NM_001142930
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCACAGTAGAGGAGCTTTACCGCAATTATGGCATCTGGCCGATGCCACGGAGCAAGTGGCCAGC
 ATAAAGATGCCTATCAAGTGATATTGGATGGTGTGAAAGGTGGTACTAAGGAAAAGCGATTAGCAGCTCA
 ATTTATCCGAAATCTTTAAGCATTTCAGAAATTGGCTGATTCTGCTATCAATGCACAGTTAGACCTC
 TGTGAGGATGAAGATGTATCTATTTCGACGTCAAGCAATTAAGAAGTGCCTCAATTTGCCACTGGAGAAA
 ATCTTCTCGAGTGGCAGATATACTAACGCAACTTTTCAGACAGATGACTCTGCAGAAATTAACCTAGT
 GAACAATGCCCTATTAAGTATATTTAAATGGATGCAAAAGGGACTTTAGGTGGTTGTTACGCCAAATA
 CTTCAAGGAGAGGACATTGTTAGAGAACGAGCAATTAATTCCTTTCTACAAAACCTAAGACTTTACCAG
 ATGAAGTCTTAACAAAGGAAGTGAAGAGCTTATACTAACTGAATCCAAAAGGTCTAGAAGATGTGAC
 TGGTGAAGAATTTGTTCTATTTATGAAGATACTGTCTGGGTTAAAAGCTTACAGACAGTGAAGTGAAGA
 CAGCAACTTGTAGAGTTGGTGGCTGAACAGGCCGACCTAGAACAGACCTCAATCCCTCGGATCCTGACT
 GTGTGGACAGGCTCTTACAGTGCCTCGCAGGAGTACCCCTCTTCTCTAAAAATGTCCATTCACAAG
 GTTTGTGACATATTTCTGTGAGCAGGTTCTCCCTAACCTCGGTACCTTGACTACCCAGTGGAAAGTCTT
 GATATACAGTTGGAGGTATTGAAATTGTTGGCGGAGATGAGTTCATTTTGTGGTACATGGAAAACTAG
 AAACAAATTTAAGGAACTATTTGATAAGTTATTGGAATACATGCCCTCCCTCCAGAAGAGGCAGAAAA
 TGGAGAGAATGCTGGTAAATGAAGAACCAAGCTACAGTTCAGTTATGTGGAATGTTTGTGTACAGTTTT
 CACCAGTTGGCCGAAAACCTCCAGATTTCTTAACAGCCAACTGAATGCAGAAAAGCTCAAAGATTTCA
 AAATCAGGCTGCAGTACTTTGCACGGGCTGCAAGTTTATATCAGACAACCTCGCTTAGCTCCTCAGGG
 TAAAACGGGTGAGGCCTTAAAAACAGAAGAGAACAAGATTAAAGTCGTTGCATTGAAAATAACAAACAAT
 ATCAATGTTTTAATCAAGGATCTCTCCACATTCCTCCTTCTTATAAGAGCACAGTAACACTATCCTGGA
 AACCTGTACAAAAGGTTGAGATTGGGCAAAAGAGAGCCAGTGAAGATACAACTTCAGTTACCACCCAA
 GAAATCTTCAGCAGGACCAAAAAGAGATGCCAGGCAGATTTATAACCCTCCAGTGGGAAATATAGCAGC
 AATTTGGGCACTTTAATTATGAGAGGAGCCTTCAGGGGAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227839 representing NM_001142930
 Red=Cloning site Green=Tags(s)

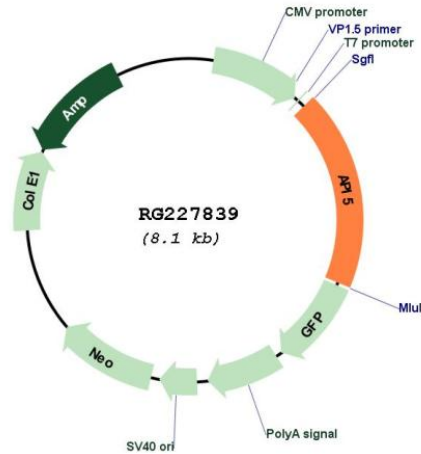
MPTVEEL YRNYGILADATEQVGQHKDAYQVILDGVKGGTKEKRLAAQFIPKFFKHPELADSAINAQLDL
 CEDEDVSIIRRAIKELPQFATGENLPRVADILTQLLQTDDSAEFNLVNNALLSIFKMDAKGTLGGLFSQI
 LQGEDIVRERAIKFLSTKLKTLPEVLTKVEEELILTESKKVLEDVTGEEFVLFMKILSGLKSLQTVSGR
 QQLVELVAEQADLEQTFNPSDPDCVDRLLQCTRQAVPLFSKNVHSTRFVYFCEQVLPNLGTLTPVEGL
 DIQLEVLKLLAEMSSFCGDMEKLETNLRKLFDKLLEYMPLPPEEAENGENAGNEEPKLFQSYVECLLYSF
 HQLGRKLPDFLTAKLNAEKLKDFKIRLQYFARGLQVYIRQLRLALQGKTGEALKTEENKIKVVALKITNN
 INVLIKDLFHIPPSYKSTVTL SWKPVQKVEIGQKRASEDTTSGSPPKSSAGPKRDARQIYNPPSGKYSS
 NLGNFNYSRSLQGK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Plasmid Map:



ACCN: NM_001142930

ORF Size: 1572 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_001142930.1 , NP_001136402.1
RefSeq Size:	3782 bp
RefSeq ORF:	1575 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]