

## Product datasheet for **SC325947**

### Apoptosis inhibitor 5 (API5) (NM\_001142931) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Apoptosis inhibitor 5 (API5) (NM_001142931) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apoptosis inhibitor 5
Synonyms:	AAC-11; AAC11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_001142931 edited  
 ATGCCGACAGTAGAGGAGCTTTACCGCAATTATGGCATCCTGGCCGATGCCACGGAGCAA  
 GTGGGCCAGATTTCGACGTC AAGCAATTAAGAAGTGCCTCAATTTGCCACTGGAGAAAAT  
 CTTCTCGAGTGGCAGATATACTAACGCAACTTTTGCAGACAGATGACTCTGCAGAAATTT  
 AACCTAGTGAACAATGCCCTATTAAGTATATTTAAAATGGATGCAAAAAGGACTTTAGGT  
 GGGTTGTT CAGCCAAATACTTCAAGGAGAGGACATTGTTAGAGAACGAGCAATTAATTC  
 CTTTCTACAAACTTAAGACTTTACCAGATGAAGTCTTAACAAAGGAAGTGAAGAGCTT  
 ATACTAACTGAATCCAAAAGGTCCTAGAAGATGTGACTGGTGAAGAATTTGTTCTATTT  
 ATGAAGATACTGTCTGGGTTAAAAAGCTTACAGACAGTGAAGTGAAGACAGCAACTTGTA  
 GAGTTGGTGGCTGAACAGGCCGACCTAGAACAGACCTTCAATCCCTCGGATCCTGACTGT  
 GTGGACAGGCTTTACAGTGCACCTCGGCAGGCAGTACCCCTCTTCTCTAAAAATGCCAT  
 TCCACAAGGTTTGTGACATATTTCTGTGAGCAGGTTCTCCCTAACCTCGGTACCTTGACT  
 ACCCCAGTGGAAGGTCCTTGATATACAGTTGGAGGTATTGAAATGTTGGCGGAGATGAGT  
 TCATTTTGTGGTGACATGGAAAACTAGAAAACAATTTAAGGAACTATTTGATAAGTTA  
 TTGGAATACATGCCCTCCCTCCAGAAGAGGCAGAAAATGGAGAGAAATGCTGGTAATGAA  
 GAACCCAGCTACAGTTCAGTTATGTGGAATGTTGTTGTACAGTTTTACCAGTTGGGC  
 CGAAAACCTCCAGATTTCTTAACAGCCAACTGAATGCAGAAAAGCTCAAAGATTTCAA  
 ATCAGGCTGCAGTACTTTCACGGGGCCCTGCAAGTTTATATCAGACAACCTCGCTTAGCT  
 CTCCAGGGTAAAACGGGTGAGGCCTTAAAAACAGAAGAGAACAAGATTAAGTCTTGCA  
 TTGAAAATAACAAACAATATCAATGTTTTAATCAAGGATCTCTCCACATTCTCTCTTCT  
 TATAAGAGCACAGTAACACTATCCTGGAACCTGTACAAAAGGTTGAGATTGGGCAAAAAG  
 AGAGCCAGTGAAGATACAACTTCAGGTTACCACCCAAGAAATCTTCAGCAGGACCAAAA  
 AGAGATGCCAGGCAGATTTATAACCCTCCAGTGGGAAATATAGCAGCAATTTGGGCAAC  
 TTTAATTATGAGAGGAGCCTTCAGGGGAAGTAG

**Restriction Sites:** Please inquire



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<b>ACCN:</b>	NM_001142931
<b>Insert Size:</b>	3800 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001142931.1</a></u> , <u><a href="#">NP_001136403.1</a></u>
<b>RefSeq Size:</b>	3615 bp
<b>RefSeq ORF:</b>	1353 bp
<b>Locus ID:</b>	8539
<b>UniProt ID:</b>	<u><a href="#">Q9BZZ5</a></u>
<b>Cytogenetics:</b>	11p12
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an in-frame exon in the 5' coding region and a small segment in the 3' coding region that results in a frameshift, compared to variant 1. The resulting protein (isoform c) lacks an internal segment in the N-terminal region and has a shorter and distinct C-terminus, compared to isoform a.</p>