

## Product datasheet for **SC119402**

### **cIAP2 (BIRC3) (NM\_001165) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	cIAP2 (BIRC3) (NM_001165) Human Untagged Clone
Tag:	Tag Free
Symbol:	cIAP2
Synonyms:	AIP1; API2; c-IAP2; CIAP2; HAIP1; HIAP1; IAP-1; MALT2; MIHC; RNF49
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119402 sequence for NM\_001165 edited (data generated by NextGen Sequencing)

```
ATGAACATAGTAGAAAACAGCATATTCTTATCAAATTTGATGAAAAGCGCCAACACGTTT
GAACTGAAATACGACTTGTCTATGTAACGTACCGAATGTCTACGTATCCACTTTTCT
GCTGGGGTTTCTGTCTCAGAAAGGAGTCTTGTCTCGTGTGGTTTCTATTACACTGGTGTG
AATGACAAGGTCAAATGCTTCTGTGTGGCCTGATGCTGGATAACTGGAAAAGAGGAGAC
AGTCCCTACTGAAAAGCATAAAAAGTTGTATCCTAGCTGCAGATTGCTTCAGAGTCTAAAT
TCCGTTAACAACCTTGAAAGCTACCTCTCAGCCTACTTTTCTTCTCAGTAACAAATTCC
ACACACTCATTACTTCCGGGTACAGAAAACAGTGGATATTTCCGTGGCTCTTATTCAAAC
TCTCCATCAAATCCTGTAACCTCCAGAGCAAATCAAGATTTTTCTGCCTTGATGAGAAGT
TCTACCCTGTGCAATGAATAACGAAAATGCCAGATTACTTACTTTTCCAGACATGGCCA
TTGACTTTTCTGTGCGCAACAGATCTGGCAAAAGCAGGCTTTTACTACATAGGACCTGGA
GACAGAGTGGCTTGCTTTGCCTGTGGTGGAAAATTGAGCAATTGGGAACCGAAGGATAAT
GCTATGTCAGAACACCTGAGACATTTTCCCAAATGCCATTTATAGAAAATCAGCTTCAA
GACACTTCAAGATACACAGTTTCTAATCTGAGCATGCAGACACATGCAGCCCGCTTTAAA
ACATTCCTTAACTGGCCCTCTAGTGTCTAGTTAATCCTGAGCAGCTTGCAAGTGCGGGT
TTTTATTATGTGGTAACAGTGATGATGTCAAATGCTTTTGTGTGATGGTGGACTCAGG
TGTTGGGAATCTGGAGATGATCCATGGGTCAACATGCCAAGTGGTTTCCAAGGTGTGAG
TACTTGATAAGAATTAAGGACAGGAGTTCATCCGTCAAGTTCAAGCCAGTTACCCTCAT
CTACTTGAACAGCTGCTATCCACATCAGACAGCCAGGAGATGAAAATGCAGAGTCATCA
ATTATCCATTTTGAACCTGGAGAAGACCATTGAGAAGATGCAATCATGATGAATACTCCT
GTGATTAATGCTGCCGTGAAAATGGGCTTTAGTAGAAGCCTGGTAAAACAGACAGTTCAG
AGAAAAATCCTAGCAACTGGAGAGAATTATAGACTAGTCAATGATCTTGTGTTAGACTTA
CTCAATGCAGAAGATGAAATAAGGGAAGAGGAGAGAGAAAAGAGCAACTGAGGAAAAAGAA
TCAAATGATTTATTATTAATCCGGAAGAATAGAATGGCACTTTTTCAACATTTGACTTGT
GTAATTCCAATCCTGGATAGTCTACTAACTGCCGGAATTATTAATGAACAAGAACATGAT
GTTATTAACAGAAGACACAGACGTCTTTACAAGCAAGAGAACTGATTGATACGATTTTA
GTAAAAGGAAATATTGCAGCCACTGTATTCAGAACTCTCTGCAAGAAGCTGAAGCTGTG
TTATATGAGCATTATTTGTGCAACAGGACATAAAATATATTCCACAGAAGATGTTTCA
GATCTACCAGTGAAGAACAATTGCGGAGACTACAAGAAGAAAGAACATGTAAGTGTGT
ATGGACAAGAAGTGTCCATAGTGTATTCCTTGTGGTCTCTAGTAGTATGCAAGAT
TGTGCTCCTTCTTAAGAAAGTGCCTATTTGTAGGAGTACAATCAAGGGTACAGTTCGT
ACATTTCTTTCATGA
```

Clone variation with respect to NM\_001165.4

**5' Read Nucleotide Sequence:**

```
>OriGene 5' read for NM_001165 unedited
GCGTTCAAATTTTGAATACGACTCACTATAGGGCGGCCGACGAATTCGCACGAGGAAAG
ATATACAAAGGTGCAATTGTGTATTTCTTCCTTAAAAGTATCAGTATAGGATTTAGAATC
TCCATGTTGAAACTCTAAATGCATAGAAATAAAAAATAAAAAATTTTTCATTTTGGCT
TTTCAGCTAGTATTAATAACTGATAAAAGCAAAGCCATGCACAAAACCTCCCTAGAG
AAAGGCTAGTCCCTTTTCTCCCATTCATTTTATTATGAACATAGTAGAAAAACGCATA
TTCTTATCAAATTTGATGAAAAGCGCCAACACGTTTGAAGTAAAACGACTTGTATGT
GAACTGTACCGAATGTCTACGTATTCACATTTTCTGCTGGGGTTCCTGTCTCATAAAGG
AGTCTTGCTCGTCTGGTTTCTATTACACTGGTGTGAATGACAAGGTCAAATGCTTCTGT
TGTGGCCTGATGCTGGATAACTGGAAAAGAGGAGACAGTCTACTGAAAAGCATAAAAAAG
TTGTATCCTAGCTGCAGATTCGTTCCAGAGTCTAAATTCGGTTAACAACTTGAAGCTACC
TCTCAGCCTACTTTTCTTCCAGTAACAAATCCACACACTCATTACTCCGGGTACA
GAAAACAGTGGATANTTTCCGTNGGCTCTATTCAAACCTCCATCAAATCCTGTAACCT
CCAGAGCANATCAAGATTTTCTGCCTTGATGAGAAGTTCCTACCACTGGTGCATGAATA
ACGAANATGCCAGATTACTTTTTCAGAAATGGCCATTGACTTTTCTGTGCGCAACAGA
TCTGGGCAAAGCANGCTTTTACTACATANGACCTGGANACAGAGTGGCTTGTCTTGCCTG
TGNTGAAAAATGAGCATTNGGAACCGAAGATT
```

**3' Read Nucleotide Sequence:**

```
>OriGene 3' read for NM_001165 unedited
GGGGGCGCGNNNNNGNNNTTTTNNNNNNNNNTTTTGTAGNACCNCNGNCCCGCATN
TAANNNGATCGGTTTTTTTTTTTTTTTTTAAAAATAATTTTGTGCTTTATTAATTTTT
TCTCACAGAATCTTTATAAAAAACCCATGGTCCCTAAAATGTCATTCAACATATATGCA
CACCTTCGATGTATAGGACACTGATCAAAAAAGACAGAGAAATGTGTCCCTGGTGTGTTG
TTTTTGTCTGTTTGTGTTTTAAAGGCAGGGTCTCAGTATGCTGCCAGGATGGATTCAAA
CTCCTGGGCTCAAGTAATTCTCTTGCCCTCAGCCTGGGACTACAGGCACATACCACCACAC
CTGGCTTCATGTTCCCGGATTAGTACAATGCCAAAATATTTAAATTTCTAAAGGTTAA
CTCAAATATCTTAAGTTTACTTCACTTACAATTTCAATAATGCTGAAATTTGATTGAA
TATTGTGTTTGTAGTGCTACCTTTTTTCGTTTATAAAGAAACAAAAGCCTATCATTCTCT
AGTTTCTAAAAAATATATGTTTATATGTTTATAGATACATATATAAATATGTTACACANAA
CAATGTTTTTTGAGTTGTAATAAATAAAAAATTTTAAAGGAAACCAATAGGATAAAAAGTT
AAAGNTATAATACATTTAATAAATTAATTCTAAAGNTTAGATGATGNTTTGGTTCTTCT
CATGAAAGAAATGTACGAACTGTACCCCTTGATGGACTCCTACAATAGACAACCTTTCT
AAANGAANGAGCCCAATCTTTCCTACTACTAGATGACCCAGGAATAAAACCTTTGGA
CACTCCTTTGNCCATACCACTTTACAATGTCTTTCTCCTGAAGCCTCCGCAATTGTTCTT
CCACTGTAAGAACTGAAACATCTTCTGGGGGAATTAATTTATGCCCTGTTGCCAAAAAA
TGCCAATTACCAAGTTTAACTTTCTGAAAAAGGTTTGAACAAGGGCTGAAATTTCTT
TACTAAAACGAAAATCATTTCTTGCTT
```

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001165

**Insert Size:**

2620 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_001165.3](#), [NP\\_001156.1](#)

**RefSeq Size:** 5243 bp

**RefSeq ORF:** 1815 bp

**Locus ID:** 330

**UniProt ID:** [Q13489](#)

**Cytogenetics:** 11q22.2

**Domains:** CARD, BIR, RING

**Protein Families:** Druggable Genome

**Protein Pathways:** Apoptosis, Focal adhesion, NOD-like receptor signaling pathway, Pathways in cancer, Small cell lung cancer, Ubiquitin mediated proteolysis

**Gene Summary:**

This gene encodes a member of the IAP family of proteins that inhibit apoptosis by binding to tumor necrosis factor receptor-associated factors TRAF1 and TRAF2, probably by interfering with activation of ICE-like proteases. The encoded protein inhibits apoptosis induced by serum deprivation but does not affect apoptosis resulting from exposure to menadione, a potent inducer of free radicals. It contains 3 baculovirus IAP repeats and a ring finger domain. Transcript variants encoding the same isoform have been identified. [provided by RefSeq, Aug 2011]

Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.