

Product datasheet for **RG211599**

cIAP2 (BIRC3) (NM_182962) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	cIAP2 (BIRC3) (NM_182962) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	cIAP2
Synonyms:	AIP1; API2; c-IAP2; CIAP2; HAIP1; HIAP1; IAP-1; MALT2; MIHC; RNF49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG211599 representing NM_182962
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACATAGTAGAAAACAGCATATTCTTATCAAATTTGATGAAAAGCGCCAACACGTTTGAACGAAAT
 ACGACTTGTGTCGTAACGTGACCGAATGTCTACGTATTCACCTTTTCTGCTGGGGTTCCTGTCTCAGA
 AAGGAGTCTTGCTCGTGTGTTTCTATTACACTGGTGTGAATGACAAGGTCAAATGCTTCTGTTGTGGC
 CTGATGCTGGATAACTGGAAAAGAGGAGACAGTCTACTGAAAAGCATAAAAAAGTTGTATCCTAGCTGCA
 GATTCTGTTAGAGTCTAAATTCGGTAAACAACCTTGAAGTACCTCTCAGCCTACTTTTCTTCTCAGT
 AACAAATCCACACACTCATTACTTCCGGGTACAGAAAACAGTGGATATTTCCGTGGCTCTTATTCAAAC
 TCTCCATCAAATCCTGTAACCTCCAGAGCAAATCAAGATTTTTCTGCCTTGATGAGAAGTCTACCCT
 GTGCAATGAATAACGAAAATGCCAGATTACTTACTTTTTCAGACATGGCCATTGACTTTTCTGTCGCCAAC
 AGATCTGGCAAAAAGCAGGCTTTTACTACATAGGACCTGGAGACAGAGTGGCTTGTCTTGCCTGTGGTGG
 AAATTGAGCAATTGGGAACCGAAGGATAATGCTATGTCAGAACACCTGAGACATTTTCCCAAATGCCCAT
 TTATAGAAAATCAGCTTCAAGACACTTCAAGATACACAGTTTCTAATCTGAGCATGCAGACACATGCAGC
 CCGCTTTAAAACATTCTTAACTGGCCCTCTAGTGTCTAGTAACTCCTGAGCAGCTTGAAGTGGGGT
 TTTTATTATGTGGGTAACAGTGTATGTCAAATGCTTTTGTGTGATGGTGGACTCAGGTGTTGGGAAT
 CTGGAGATGATCCATGGGTTCAACATGCCAAGTGGTTTCAAGGTGTGAGTACTTGATAAGAATTAAGG
 ACAGGAGTTATCCGTCAAGTCAAGCCAGTACCCTCATCTACTGAACAGCTGCTATCCACATCAGAC
 AGCCCAGGAGATGAAAATGCAGAGTCAATCAATTCATTTTGAACCTGGAGAAGACCATTGAGAAGATG
 CAATCATGATGAATACTCCTGTGATTAATGCTGCCGTGAAAATGGGCTTATAGTAGAACCTGGTAAAA
 GACAGTTCAGAGAAAAATCCTAGCAACTGGAGAGAATTATAGACTAGTCAATGATCTTGTGTAGACTTA
 CTAATGCAGAAGATGAAATAAGGGAAGAGGAGAGAGAAAAGCAACTGAGGAAAAAGAATCAAATGATT
 TATTATTAATCCGGAAGAATAGAATGGCACTTTTTCAACATTTGACTTGTGTAATCCAATCCTGGATAG
 TCTACTAACTGCCGGAATTATTAATGAACAAGAACATGATGTTATTAACAGAAGACACAGACGCTTTTA
 CAAGCAAGAGAAGTATTGATACGATTTTAGTAAAAGGAAATATTGCAGCCACTGTATTCAGAAAATCTC
 TGCAAGAAGCTGAAGCTGTGTTATATGAGCATTATTTGTGCAACAGGACATAAAAATATATTTCCACAGA
 AGATGTTTCAGATCTACCAGTGAAGAACAATTGCGGAGACTACAAGAAGAAAGACATGTAAGTGTGT
 ATGGACAAAGAAGTGTCCATAGTGTATTCCTTGTGGTCACTAGTAGTATGCAAGATTGTGCTCCTT
 CTTAAGAAAGTGTCTATTTGTAGGAGTACAATCAAGGTTACAGTTCGTACATTTCTTTCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG211599 representing NM_182962
 Red=Cloning site Green=Tags(s)

MNIVENSIFLSNLMKSANTFELKYDLSCELYRMSTYSTFPAGVPVRSRLARAGFYTGAVNDKVKCFCCG
 LMLDNWKRGDSPTEKHKLYPSCRQVQSLNSVNNLEATSQPTFPSSVTNSTHLLPGTENSQYFRGYSYN
 SPSNPVNSRANQDFALMRSSYHCAMNNENARLLTFQWPLTFLSPTDLAKAGFYIIGPDRVACFACGG
 KLSNWEPKDNAMSEHLRHFPCPFLENQLQDTSRYTVSNLSMQTHAARFKTFNWPSSVLVNPEQLASAG
 FYYVGNSSDDVKCFCCDGLRCWESGDDPWVQHWKWFPRCEYLIRIKGQEFIRQVQASYPHLLLEQLLSTSD
 SPGDENAESSIIHFEPGEDHSEDAIMMNPVINAAVEMGFSRSLVKQTVQRKILATGENYRLVNDLVLDL
 LNAEDEIREEERERATEEKESENDLLLIRKNRMALFQHLTCVIPILDSLLTAGIINEQEHDVIKQKTQTSL
 QARELIDTILVKGNIAATVFRNSLQEAELVYEHLFVQQDIKIYIPTEDVSDLPVEEQLRRLQEERTCKVC
 MDKEVSIIVFPCGHLVVKDCAPSLRKPCICRSTIKGTVRTFLS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_182962

ORF Size: 1812 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_182962.3](#)

RefSeq Size: 2683 bp

RefSeq ORF: 1815 bp

Locus ID: 330

UniProt ID: [Q13489](#)

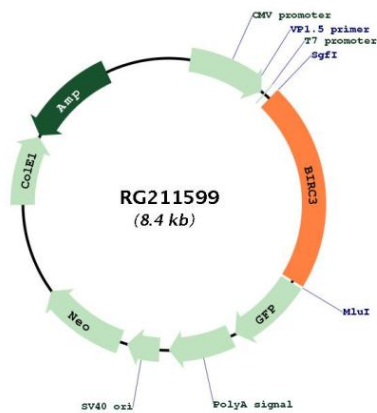
Cytogenetics: 11q22.2

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]

Product images:



Circular map for RG211599