

Product datasheet for **RG205373**

cIAP1 (BIRC2) (NM_001166) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	cIAP1 (BIRC2) (NM_001166) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	cIAP1
Synonyms:	API1; c-IAP1; cIAP1; Hiap-2; HIAP2; MIHB; RNF48
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205373 representing NM_001166
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCACAAAACACTGCCTCCCAAAGACTTTTCCAGTCCCTCGTATCAAAACATTAAGAGTATAATGGAAG
 ATAGCACGATCTTGTGAGATTGGACAAACAGCAACAAACAAAAATGAAGTATGACTTTTCTGTGAACT
 CTACAGAAATGTCTACATATTCAACTTTCCCGCCGGGGTGCCTGTCTCAGAAAGGAGTCTTGCTCGTGCT
 GGTTTTTATTACTGGTGTGAATGACAAGGTCAAATGCTTCTGTGTGGCCTGATGCTGGATAACTGGA
 AACTAGGAGACAGTCTATTCAAAGCATAAACAGCTATATCCTAGCTGTAGCTTTATTGAGAACTGGT
 TTCAGCTAGTCTGGATCCACCTCTAAGAATACGTCTCCAATGAGAAACAGTTTTGCACATTCATTATCT
 CCCACCTTGGAACATAGTAGCTTGTTCAGTGGTCTTACTCCAGCCTTTTCCAAACCCTCTTAATTCTA
 GAGCAGTTGAAGACATCTTTCATCGAGGACTAACCCCTACAGTTATGCAATGAGTACTGAAGAAGCCAG
 ATTTCTTACCTACCATATGTGGCCATTAACTTTTTGTCAACCATCAGAATTGGCAAGAGCTGGTTTTTAT
 TATATAGGACCTGGAGATAGGGTAGCCTGCTTTGCCTGTGGTGGGAAGCTCAGTAACTGGGAACCAAAGG
 ATGATGCTATGTCAGAACACCGGAGGCATTTTCCCAACTGTCCATTTTGGAAAAATCTCTAGAAACTCT
 GAGGTTTAGCATTTCAAATCTGAGCATGCAGACACATGCAGCTCGAATGAGAACATTTATGTACTGGCCA
 TCTAGTGTTCAGTTCAGCCTGAGCAGCTTGAAGTGTGGTTTTTATTATGTGGGTGCGAATGATGATG
 TCAAATGCTTTTGTGTGATGGTGGCTTGAAGTGTGGGAATCTGGAGATGATCCATGGGTAGAACATGC
 CAAGTGGTTTCCAAGGTGTGAGTCTTGATACGAATGAAAGGCCAAGAGTTTGTGATGAGATCAAGGT
 AGATACCTCATCTTCTGAACAGCTGTTGTCAACTTCAGATACCACTGGAGAAGAAAAATGCTGACCCAC
 CAATTATTCATTTTGGACCTGGAGAAAGTTCTTCAGAAGATGCTGTCATGATGAATACACCTGTGGTTAA
 ATCTGCCTTGGAAATGGGCTTTAATAGAGACCTGGTGAACAAACAGTTCAAAGTAAAAATCTGACAACT
 GGAGAGAACTATAAAACAGTTAATGATATTGTGTGAGCACTTCTTAATGCTGAAGATGAAAAAGAGAAG
 AGGAGAAGGAAAAACAAGCTGAAGAAATGGCATCAGATGATTTGTATTAAATTCGGAAGAACAGAAATGGC
 TCTCTTCAACAATTGACATGTGTGCTTCTATCTGGATAATCTTTAAAGGCCAATGTAATTAATAAA
 CAGGAACATGATATTATTAACAAAAACACAGATACCTTTACAAGCGAGAGAAGTATTGATACCATTT
 TGGTTAAAGGAAATGCTGCGCCAACATCTTCAAAAAGTCTAAAAGAAATGACTCTACATTGTATAA
 GAACCTATTTGTGGATAAGAATATGAAGTATATCCAACAGAAGATGTTTCAGGTCTGCTACTGGAAGAA
 CAATTGAGGAGTTGCAAGAAGAACGAACCTTGAAGTGTGTATGGACAAAGAAGTTTCTGTTGATTTA
 TTCTTGTGGTCACTGTTAGTATGCCAGGAATGTGCCCTTCTCTAAGAAAATGCCCTATTTGCAGGGG
 TATAATCAAGGGTACTGTTCTGACATTTCTCTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205373 representing NM_001166
 Red=Cloning site Green=Tags(s)

MHKTASQRLFPGPSYQNIKSIMEDSTILSDWTNSNKQKMKYDFSCELYRMSTYSTFPAGVPVRSERLARA
 GFYYTGVNDKVKCFCCGLMLDNWKLGDSPIQKHKQLYPCSFYIQLNLSASLGSTSKNTSPMRNSFAHSL
 PTLEHSSLFSGSYSSLSPNPLNSRAVEDISSRTNPYSYAMSTEEARFLTYHMWPLTFLSPSELARAGFY
 YIGPGDRVACFACGGKLSNWEPKDDAMSEHRRHFPNCPFLENSLETLRFSISNLSTQTHAARMRTFMYWP
 SSVPVQPEQLASAGFYVGRNDDVKCFCCDGLRCWESGDDPWVEHAKWFPCEFLIRMKGQEFVDEIQG
 RYPHLLQLLSTSDTTGEENADPPIIHFPGESSEDAVMMNTPVVKSALEMGFNRDLVKQTVQSKILTT
 GENYKTVNDIVSALLNAEDEKREEEKEKQAEEMASDDLIRKRNRMALFQQLTCVLPILDNLLKANVINK
 QEHDIKQKTQIPLQARELIDTILVKGNAANIIFKNCLKEIDSTLYKNLFDKNMKYIPTEDVSGLSLEE
 QLRRQLQEERTCKVCMDEKESVVFIPCGHLVVCQECAPSLRKCPICRGIIKGTVRTFLS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001166

ORF Size: 1854 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_001166.4](#)

RefSeq Size: 3753 bp

RefSeq ORF: 1857 bp

Locus ID: 329

UniProt ID: [Q13490](#)

Cytogenetics: 11q22.2

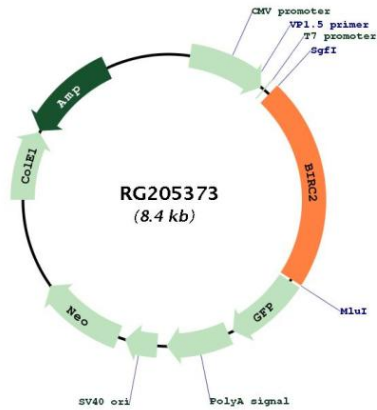
Domains: CARD, BIR, RING

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: The protein encoded by this gene is a member of a family of proteins that inhibits apoptosis by binding to tumor necrosis factor receptor-associated factors TRAF1 and TRAF2, probably by interfering with activation of ICE-like proteases. This encoded protein inhibits apoptosis induced by serum deprivation and menadione, a potent inducer of free radicals. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RG205373