

## Product datasheet for **RG207627**

### **XIAP (NM\_001167) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	XIAP (NM_001167) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	XIAP
Synonyms:	API3; BIRC4; hIAP-3; hIAP3; IAP-3; ILP1; MIHA; XLP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207627 representing NM\_001167  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTTTTAACAGTTTTGAAGGATCTAAAACCTGTGTACCTGCAGACATCAATAAGGAAGAAGAATTTG  
 TAGAAGAGTTTAAATAGATTA AAAACTTTTGCTAATTTTCCAAGTGGTAGCCTGTTTCAGCATCAACACT  
 GGCACGAGCAGGGTTTTCTTTATACTGGTGAAGGAGATACCGTGCCTGCTTTAGTTGTATGCAGCTGTA  
 GATAGATGGCAATATGGAGACTCAGCAGTTGGAAGACACAGGAAAGTATCCCAAATTCAGATTTATCA  
 ACGGCTTTTATCTTGAAAATAGTGCCACGCAGTCTACAAATCTGGTATCCAGAATGGTCAGTACAAAGT  
 TGAAAACATCTGGGAAGCAGAGATCATTTTGCCTTAGACAGGCCATCTGAGACACATGCAGACTATCTT  
 TTGAGAACTGGCAGGTTGTAGATATATCAGACACCATATACCCGAGGAACCTGCCATGTATAGTGAAG  
 AAGCTAGATTAAGTCTTTCAGAACTGGCCAGACTATGCTCACCTAACCCCAAGAGAGTTAGCAAGTGC  
 TGGACTCTACTACACAGGATTGGTGACCAAGTGCAGTCTTTTGTGTGGTGGAAAACGAAAAATTTGG  
 GAACCTTGTGATCGTGCCTGGTCAGAACACAGGCGACACTTTCCTAATTGCTTCTTTGTTTTGGGCGCGA  
 ATCTTAATATTCGAAGTGAATCTGATGCTGTGAGTTCTGATAGGAATTTCCCAAATTCACAAATCTTCC  
 AAGAAATCCATCCATGGCAGATTATGAAGCACGGATCTTTACTTTTGGGACATGGATATACTCAGTTAAC  
 AAGGAGCAGCTTGCAAGAGCTGGATTTTATGCTTTAGGTGAAGGTGATAAAGTAAAGTGCCTTCACTGTG  
 GAGGAGGGCTAACTGATTGGAAGCCAGTGAAGACCCTTGGGAACAACATGCTAAATGGTATCCAGGGTG  
 CAAATATCTGTTAGAACAAGGACAAGAATATATAACAATATTCATTTAACTCATTCACTTGAGGAG  
 TGCTGGTACAAGAAGCTATACGAATGGGTTTCAGTTTCAAGGACATTAAGAAAATATGGAGGAAAAAT  
 TCAGATATCTGGGAGCAACTATAAATCACTTGAGGTTCTGGTTGCAGATCTAGTGAATGCTCAGAAAGAC  
 AGTATGCAAGATGAGTCAAGTCAGACTTATTACAGAAAGAGATTAGTACTGAAGAGCAGCTAAGGCGCC  
 TGCAAGAGGAGAAGCTTTGCAAAATCTGTATGGATAGAAATATTGCTATCGTTTTTGTCTTGTGGACA  
 TCTAGTCACTTGTAAACAATGTGCTGAAGCAGTTGACAAGTGTCCCATGTGCTACACAGTCACTACTTTC  
 AAGCAAAAATTTTTATGTCT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG207627 representing NM\_001167  
 Red=Cloning site Green=Tags(s)

MTFNSEFGSKTCVPADINKEEEFVEEFNRLKTFANFPSGSPVSASTLARAGFLYTGEDTVRCFSCHAAV  
 DRWQYGD SAVGRHRKVS PNCRFINGFYLENSATQSTNSGIQNGQYKVENYL GSRDHFALDRPSETHADYL  
 LRTGQVVDISDTIYPRNPAMYSEEARLKS FQNWPDY AHLTPRELASAGLYYTGIGDQVQFC CGGKLNW  
 EPCDRAWSEHRRHFPNCFVLGRNLNIRSEDAVSSDRNFPNSTNLPRNPSMADYEARIFFGTWIYSVN  
 KEQLARAGFYALGEGDKVKCFHCGGGLTDWKPSDPWEQHAKWYPGCKYLLEQKGQEYINNIHLTHSLEE  
 CLVRTTEKTPSLTRRIDDTIFQNP MVQEAIRMGFSFKDIKKIMEEKIQISGSNYKSLEVLVADLVNAQKD  
 SMQDESSQTSLQKEISTEEQLRRLQEEKLCCKICMDRNIAIVFVPCGHLVTCKQCAEAVDKCPMCYTVITF  
 KQKIFMS

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001167

**ORF Size:** 1491 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\\_001167.4](#)

**RefSeq Size:** 8413 bp

**RefSeq ORF:** 1494 bp

**Locus ID:** 331

**UniProt ID:** [P98170](#)

**Cytogenetics:** Xq25

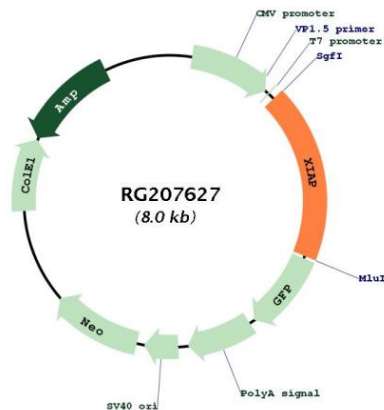
**Domains:** BIR, RING

**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 protein that belongs to a family of apoptotic suppressor proteins. Members of this family share a conserved motif termed, baculovirus IAP repeat, which is necessary for their anti-apoptotic function. This protein functions through binding to tumor necrosis factor receptor-associated factors TRAF1 and TRAF2 and inhibits apoptosis induced by menadione, a potent inducer of free radicals, and interleukin 1-beta converting enzyme. This protein also inhibits at least two members of the caspase family of cell-death proteases, caspase-3 and caspase-7. Mutations in this gene are the cause of X-linked lymphoproliferative syndrome. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 2 and 11.[provided by RefSeq, Feb 2011]

**Product images:**



Circular map for RG207627