

## Product datasheet for **RG232861**

### **XIAP (NM\_001204401) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	XIAP (NM_001204401) 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:**

>RG232861 representing NM\_001204401  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACTTTTAACAGTTTTGAAGGATCTAAAACCTGTGTACCTGCAGACATCAATAAGGAAGAAGAATTTG  
 TAGAAGAGTTTAAATAGATTA AAAACTTTTGCTAATTTTCCAAGTGGTAGTCCTGTTTCAGCATCAACACT  
 GGCACGAGCAGGGTTTTCTTTATACTGGTGAAGGAGATACCGTGC GGTTAGTTGTATGCAGCTGTA  
 GATAGATGGCAATATGGAGACTCAGCAGTTGGAAGACACAGGAAAGTATCCCAAATTCAGATTTATCA  
 ACGGCTTTTATCTTGAAAATAGTGCCACGCAGTCTACAAATCTGGTATCCAGAATGGTCAGTACAAAGT  
 TGAAAACATCTGGGAAGCAGAGATCATTTTGCCTTAGACAGGCCATCTGAGACACATGCAGACTATCTT  
 TTGAGAACTGGCAGGTTGTAGATATATCAGACACCATATACCCGAGGAACCCTGCCATGTATAGTGAAG  
 AAGCTAGATTAAGTCTTTCAGAACTGGCCAGACTATGCTCACCTAACCCCAAGAGAGTTAGCAAGTGC  
 TGGACTCTACTACACAGGTTTGGTGACCAAGTGCAGTCTTTTGTGTGGTGGAAAACGAAAAATTGG  
 GAACCTTGTGATCGTGCCTGGTCAGAACACAGGCGACACTTTCCTAATTGCTTCTTTGTTTTGGGCCGGA  
 ATCTTAATATTCGAAGTGAATCTGATGCTGTGAGTTCTGATAGGAATTTCCCAAATTCACAAATCTTCC  
 AAGAAATCCATCCATGGCAGATTATGAAGCACGGATCTTTACTTTTGGGCATGGATATACTCAGTTAAC  
 AAGGAGCAGCTTGCAAGAGCTGGATTTTATGCTTTAGGTGAAGGTGATAAAGTAAAGTGCTTTCAGTGTG  
 GAGGAGGGCTAACTGATTGGAAGCCAGTGAAGACCCTTGGGAACAACATGCTAAATGGTATCCAGGGTG  
 CAAATATCTGTTAGAACAAGGACAAGAATATATAACAATATTCATTTAACTCATTCACTTGAGGAG  
 TGCTGGTACAAGAAGCTATACGAATGGGTTTCAGTTTCAAGGACATTAAGAAAATATGGAGGAAAAAT  
 TCAGATATCTGGGAGCAACTATAAATCACTTGAGTTTCAAGGACATTAAGAAAATATGGAGGAAAAAT  
 AGTATGCAAGATGAGTCAAGTCAGACTTATTACAGAAAGAGATTAGTACTGAAGAGCAGCTAAGGCCCC  
 TGCAAGAGGAGAAGCTTTGCAAAATCTGTATGGATAGAAATATTGCTATCGTTTTTTGTTCTTGTGGACA  
 TCTAGTCACTTGTAAACAATGTGCTGAAGCAGTTGACAAGTGTCCCATGTGCTACACAGTCACTACTTTC  
 AAGCAAAAATTTTTATGTCT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG232861 representing NM\_001204401  
 Red=Cloning site Green=Tags(s)

MTFNSEFGSKTCVPADINKEEEFVEEFNRLKTFANFPSGSPVSASTLARAGFLYTGEDTVRCFSCHAAV  
 DRWQYGD SAVGRHRKVS PNCRFINGFYLENSATQSTNSGIQNGQYKVENYL GSRDHFALDRPSETHADYL  
 LRTGQVVDISDTIYPRNPAMYSEEARLKS FQNWPDY AHLTPRELASAGLYYTIGIGDQVQFC CGGKLNW  
 EPCDRAWSEHRRHPNCFV LGRNLNIRSEDAVSSDRNFPNSTNLPRNPSMADYEARIFFGTWIYSVN  
 KEQLARAGFYALGEGDKVKCFHCGGGLTDWKPSDPWEQHAKWYPGCKYLLEQKGQEYINNIHLTHSLEE  
 CLVRTTEKTPSLTRRIDDTIFQNP MVQEAIRMGFSFKDIKKIMEEKIQISGSNYKSLEVLVADLVNAQKD  
 SMQDESSQTSLQKEISTEEQLRRLQEEKLCIKMDRNIAIVFVPCGHLVTCKQCAEAVDKCPMCYTVITF  
 KQKIFMS

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:

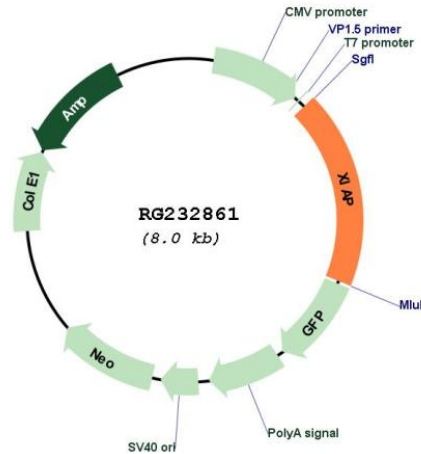
Cloning sites used for ORF Shutting:



```

                                Kozac
                                Consensus
                                SgfI   AscI
          EcoRI   BamHI KpnI   RBS
CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

          HindIII  NheI  RsrII  MluI  NotI  XhoI  GFP Tag
CAAGCTTAACTAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC GAG  ATG GAG AGC GAC -----
                                   T  R  T  R  P  L  E  M  E  S  D  -  -  -
          PmeI   FseI
----- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT
          -  -  E  E  R  V  Stop
    
```

**Plasmid Map:**


**ACCN:** NM\_001204401

**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).

<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>	<a href="#">NM_001204401.2</a>
<b>RefSeq Size:</b>	8427 bp
<b>RefSeq ORF:</b>	1494 bp
<b>Locus ID:</b>	331
<b>UniProt ID:</b>	<a href="#">P98170</a>
<b>Cytogenetics:</b>	Xq25
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Apoptosis, Focal adhesion, NOD-like receptor signaling pathway, Pathways in cancer, Small cell lung cancer, Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	<p>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]</p>