

## Product datasheet for **MR230240**

### **Xiap (NM\_001301639) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Xiap (NM_001301639) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Xiap
Synonyms:	1110015C02Rik; A; Aipa; Api3; Bir; Birc4; I; IAP3; IL; ILP-1; MIHA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230240 representing NM\_001301639  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACTTTTAACAGTTTTGAAGGAAGTAACTTTTGTACTTGCAGACACCAATAAGGATGAAGAATTTG  
 TAGAAGAGTTTAAATAGATTAACAAACATTTGCTAACTTCCCAAGTAGTAGCCTGTTTCAGCATCAACATT  
 GGCGCGAGCTGGGTTTCTTTATACCGGTGAAGGAGACACCGTGAATGTTTCAGTTGTATGCGGCAATA  
 GATAGATGGCAGTATGGAGACTCAGCTGTTGGAAGACACAGGAGAATATCCCAAATTCAGATTTATCA  
 ATGGTTTTTATTTGAAAATGGTGTGCACAGTCTACAAATCCTGGTATCCAAAATGGCCAGTACAAATC  
 TGAAACTGTGTGGAAATAGAAATCCTTTGCCCTGACAGGCCACCTGAGACTCATGCTGATTATCTC  
 TTGAGAACTGGACAGTTGTAGATTTTACAGACCCATATACCCGAGGAACCTGCCATGTGTAGTGAAG  
 AAGCCAGATTGAAGTCATTTCAGAACTGGCCGGACTATGCTCATTTAACCCAGAGAGTGTAGTAGTGC  
 TGGCCTCTACTACACAGGGGCTGATGATCAAGTGAATGCTTTTGTGTGGGGAAAAGTAAAAATTTGG  
 GAACCCTGTGATCGTGCCTGGTCAAGACACAGGAGACACTTTCCAATTGCTTTTTTGTGGCCGGA  
 ACGTTAATGTTTCAAGTGAATCTGGTGTGAGTTCTGATAGGAATTTCCAAAATCAACAACTCTCCAAG  
 AAATCCAGCCATGGCAGAATATGAAGCACGGATCGTTACTTTTGGAAATGGACATCCTCAGTTAACAAG  
 GAGCAGCTTGAAGAGCTGGATTTATGCTTTAGGTGAAGGCGATAAAGTGAAGTGTCTTCACTGTGGAG  
 GAGGGCTCACGGATTGGAAGCCAAGTGAAGACCCTTGGGAACAGCATGCGAAGTGGTACCCAGGGTGCAA  
 ATACCTATTGGATGAGAAGGGCAAGAATATAAATAATATTCATTTAACCCATCACTTGAGGAATCT  
 TTGGGAAGAACTGCTGAAAAACACCATCGCTAACTAAAAAATCGATGATACCATCTTCCAGAAATCCTA  
 TGTTGCAAGAAGCTATACGAATGGGATTTAGCTTCAAGGACATTAAGAAAACAATGGAAGAAAAATCCA  
 AACATCCGGGAGCAGCTATCTATCACTTGAAGTCTGATTGCAGATCTTGTGAGTGTGAGAAAGATAAT  
 ACGGAGGATGAGTCAAGTCAAACTTCATTGCAGAAAGACATTAGTACTGAAGAGCAGCTAAGGCGCTAC  
 AAGAGGAGAAGCTTTGCAAAATCTGATGGATAGAAATATTGCTATCGTTTTTGTCTTGTGGACATCT  
 GGTCACTTGTAAACAGTGTGCAGAAGCAGTTGACAAATGTCCCATGTGCTACACCGTCATTACGTTCAAG  
 CAAAAATTTTTATGTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230240 representing NM\_001301639  
 Red=Cloning site Green=Tags(s)

MTFNSFEGTRTFVLADTNKDEEFVEEFNRLKTFANFPSSSPVSASTLARAGFLYTGEEDTVQCSCHAAI  
 DRWQYGD SAVGRHRRISPNCRFINGFYFENGAAQSTNPGIQNGQYKSENCVGNRNPFPDRPPETHADYL  
 LRTGQVVDISDTIYPRNPAMCSEEARLKSFNWPDYAHLPRELASAGLYTGADDQVQFCGGLKKNW  
 EPCDRAWSEHRRHFPNCFVLRNVNVRSESGVSSDRNFPNSTNSPRNPAMAEYEARIVTFGTWTSVVK  
 EQLARAGFYALGEGDKVKCFHCGGLTDWKPSEDPWEQHAKWYPGCKYLLDEKQGEYINNIHLTHSLEES  
 LGRTAEKTPSLTKKIDDTIFQNPMVQEAIRMGFSFKDIKKTMEEKIQTSGSSYL SLEVL IADLVSAQKDN  
 TEDESSQTSLQKDI STEEQLRRLQEEKLCIKMDRNIAIVFVPCGHLVTCKQCAEAVDKCPMCYTVITFK  
 QKIFMS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_001301639

**ORF Size:** 1488 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\\_001301639.1](#), [NP\\_001288568.1](#)

**RefSeq Size:** 6694 bp

**RefSeq ORF:** 1491 bp

**Locus ID:** 11798

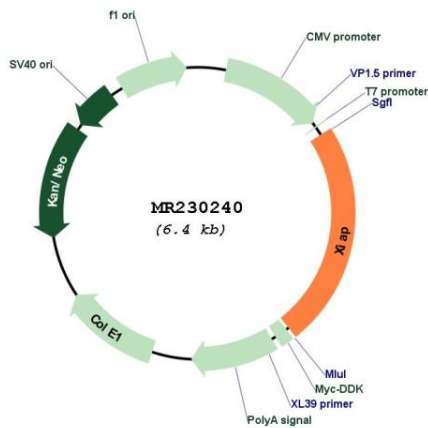
**UniProt ID:** [Q60989](#)

**Cytogenetics:** X A4

**MW:** 56.1 kDa

**Gene Summary:** The protein encoded by this gene is a member of the inhibitor of apoptosis (IAP) family of proteins. While first identified for its role in blocking apoptosis, this protein modulates many other signaling processes including nuclear factor kappa-light-chain-enhancer of activated B cells (NF- $\kappa$ B) pathways and inflammatory responses. This protein blocks apoptosis by binding and inhibiting target caspases after they have been activated. Binding occurs to some, but not all, caspases. This protein has several conserved regions, including baculoviral IAP repeat (BIR) motifs and a RING finger E3 ligase domain. In humans, mutations in this gene are linked to immunodeficiency in X-linked lymphoproliferative syndrome type-2 (XLP-2). A pseudogene of this gene is found on chromosome 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014]

**Product images:**



Circular map for MR230240