

Product datasheet for **RC207627**

XIAP (NM_001167) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XIAP (NM_001167) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	XIAP
Synonyms:	API3; BIRC4; hIAP-3; hIAP3; IAP-3; ILP1; MIHA; XLP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207627 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACTTTTAACAGTTTTGAAGGATCTAAAACCTGTGTACCTGCAGACATCAATAAGGAAGAAGAATTTG
 TAGAAGAGTTTTAATAGATTA AAAACTTTTGCTAATTTTCCAAGTGGTAGCCTGTTTCAGCATCAACACT
 GGCACGAGCAGGGTTTTCTTTATACTGGTGAAGGAGATACCGTGCAGTGTCTTAGTTGTCATGCAGCTGTA
 GATAGATGGCAATATGGAGACTCAGCAGTTGGAAGACACAGGAAAGTATCCCAAATTCAGATTTATCA
 ACGGCTTTTATCTTGAAAATAGTGCCACGCAGTCTACAAATCTGGTATCCAGAATGGTCAGTACAAAGT
 TGAAAACATCTGGGAAGCAGAGATCATTTTGCCTTAGACAGGCCATCTGAGACACATGCAGACTATCTT
 TTGAGAACTGGCAGGTTGTAGATATATCAGACACCATATACCCGAGGAACCTGCCATGTATAGTGAAG
 AAGCTAGATTAAGTCTTTCAGAACTGGCCAGACTATGCTCACCTAACCCCAAGAGAGTTAGCAAGTGC
 TGGACTCTACTACACAGGATTGGTGACCAAGTGCAGTGTCTTTGTTGTGGTGGAAAACGAAAAATTGG
 GAACCTTGTGATCGTGCCTGGTCAGAACACAGGCGACACTTTCCTAATTGCTTCTTTGTTTTGGGCCGGA
 ATCTTAATATTCGAAGTGAATCTGATGCTGTGAGTTCTGATAGGAATTTCCCAAATTCACAAATCTTCC
 AAGAAATCCATCCATGGCAGATTATGAAGCACGGATCTTTACTTTTGGGACATGGATATACTCAGTTAAC
 AAGGAGCAGCTTGCAAGAGCTGGATTTTATGCTTTAGGTGAAGGTGATAAAGTAAAGTGCTTTCAGTGTG
 GAGGAGGGCTAACTGATTGGAAGCCAGTGAAGACCCTTGGGAACAACATGCTAAATGGTATCCAGGGTG
 CAAATATCTGTTAGAACAAGGACAAGAATATATAACAATATTCATTTAACTCATTCACTTGAGGAG
 TGTCTGGTAAGAAGCTACTGAGAAAACACCATCACTAACTAGAAGAATTGATGATACCATCTTCCAAAATC
 CTATGGTACAAGAAGCTATACGAATGGGTTTCAGTTTCAAGGACATTAAGAAAATATGGAGGAAAAAT
 TCAGATATCTGGGAGCAACTATAAATCACTTGAGGTTCTGGTTGCAGATCTAGTGAATGCTCAGAAAGAC
 AGTATGCAAGATGAGTCAAGTCAGACTTATTACAGAAAGAGATTAGTACTGAAGAGCAGCTAAGGCCCC
 TGCAAGAGGAGAAGCTTTGCAAAATCTGTATGGATAGAAATATTGCTATCGTTTTTGTCTTGTGGACA
 TCTAGTCACTTGTAAACAATGTGCTGAAGCAGTTGACAAGTGCCCATGTGCTACACAGTCACTACTTTC
 AAGCAAAAAATTTTTATGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207627 protein sequence
 Red=Cloning site Green=Tags(s)

MTFNSEFGSKTCVPADINKEEEFVEEFNRLKTFANFSPGSPVSASTLARAGFLYTGEGDTRVRCFSCHAAV
 DRWQYGDYSAVGRHRKVSFNCRFINGFYLENSATQSTNSGIQNGQYKVENYLGSRDHFALDRPSETHADYL
 LRTGQVVDISDTIYPRNPAMYSEEARLKSFNWPDYAHLPRELASAGLYTIGDQVQFCGCGKLNW
 EPCDRAWSEHRRHFPNCFVLRNLNIRSESDAVSSDRNFPNSTNLPRNPSMADYEARIFFGTWISVN
 KEQLARAGFYALGEGDKVKCFHCGGGLTDWKPSDPWEQHAKWYPGCKYLLEQKQYIYNNIHLTHSLEE
 CLVRTTEKTPSLTRRIDDTIFQNPVQEAIRMGFSFKDIKKIMEEKIQISGSNYKSLEVLVADLVNAQKD
 SMQDESSQTSLQKEISTEQLRRLQEEKLCIKMDRNIAIVFVPCGHLVTCKQCAEAVDKPCMCYTITF
 KQKIFMS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6337_b01.zip

Restriction Sites:

SgfI-MluI

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001167.4](#)

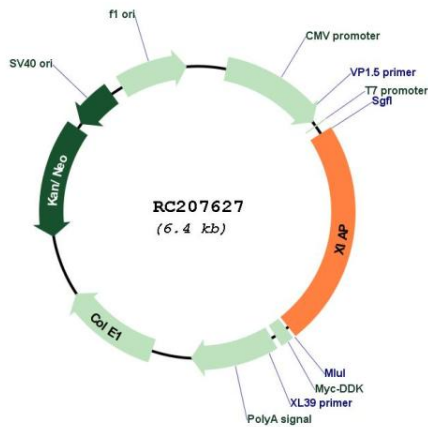
RefSeq Size: 8460 bp

RefSeq ORF: 1494 bp

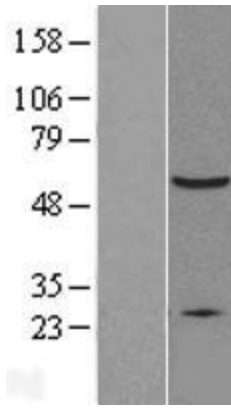
Locus ID: 331

UniProt ID:	<u>P98170</u>
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
MW:	56.7 kDa
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]

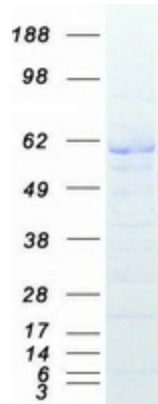
Product images:



Circular map for RC207627



Western blot validation of overexpression lysate (Cat# [LY420092]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207627 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified XIAP protein (Cat# [TP307627]). The protein was produced from HEK293T cells transfected with XIAP cDNA clone (Cat# RC207627) using MegaTran 2.0 (Cat# [TT210002]).