

Product datasheet for **RC232861**

XIAP (NM_001204401) Human Tagged ORF Clone

Product data:

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

>RC232861 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACTTTTAACAGTTTTGAAGGATCTAAAACCTGTGTACCTGCAGACATCAATAAGGAAGAAGAATTTG
 TAGAAGAGTTTAAATAGATTA AAAACTTTTGCTAATTTTCCAAGTGGTAGCCTGTTTCAGCATCAACACT
 GGCACGAGCAGGGTTTCTTTATACTGGTGAAGGAGATACCGTGC GGTTAGTTGTATGCAGCTGTA
 GATAGATGGCAATATGGAGACTCAGCAGTTGGAAGACACAGGAAAGTATCCCAAATTCAGATTTATCA
 ACGGCTTTTATCTTGAAAATAGTGCCACGCAGTCTACAAATCTGGTATCCAGAATGGTCAGTACAAAGT
 TGAAAACATCTGGGAAGCAGAGATCATTTTGCCTTAGACAGGCCATCTGAGACACATGCAGACTATCTT
 TTGAGAACTGGCAGGTTGTAGATATATCAGACACCATATACCCGAGGAACCTGCCATGTATAGTGAAG
 AAGCTAGATTAAGTCTTTCAGAACTGGCCAGACTATGCTCACCTAACCCAAAGAGAGTTAGCAAGTGC
 TGGACTCTACTACACAGGATTGGTGACCAAGTGCAGTCTTTTGTGTGGTGGAAAACGAAAAATTGG
 GAACCTTGTGATCGTGCCTGGTCAGAACACAGGCGACACTTTCCTAATTGCTTCTTTGTTTTGGGCCGGA
 ATCTTAATATTGGAAGTGAATCTGATGCTGTGAGTTCTGATAGGAATTTCCCAAATTCACAAATCTTCC
 AAGAAATCCATCCATGGCAGATTATGAAGCACGGATCTTACTTTTGGGACATGGATATACTCAGTTAAC
 AAGGAGCAGCTTGCAAGAGCTGGATTTTATGCTTAGGTGAAGGTGATAAAGTAAAGTGCTTTCAGTGTG
 GAGGAGGGCTAACTGATTGGAAGCCAGTGAAGACCCTTGGGAACAACATGCTAAATGGTATCCAGGGTG
 CAAATATCTGTTAGAACAAGGACAAGAATATATAACAATATTCATTTAACTCATTCACTTGAGGAG
 TGCTGGTAAAGAACTACTGAGAAAACACCATCACTAACTAGAAGAATTGATGATACCATCTTCCAAAATC
 CTATGGTACAAGAAGCTATACGAATGGGTTTCAGTTTCAAGGACATTAAGAAAATATGGAGGAAAAAT
 TCAGATATCTGGGAGCAACTATAAATCACTTGAGGTTCTGGTTGCAGATCTAGTGAATGCTCAGAAAGAC
 AGTATGCAAGATGAGTCAAGTCAGACTTATTACAGAAAGAGATTAGTACTGAAGAGCAGCTAAGGCCCC
 TGCAAGAGGAGAAGCTTTGCAAAATCTGTATGGATAGAAATATTGCTATCGTTTTTGTCTTGTGGACA
 TCTAGTCACTTGTAAACAATGTGCTGAAGCAGTTGACAAGTGCCCATGTGCTACACAGTCATTACTTTC
 AAGCAAAAAATTTTTATGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232861 protein sequence
 Red=Cloning site Green=Tags(s)

MTFNSEFGSKTCVPADINKEEEFVEEFNRLKTFANFSPGSPVSASTLARAGFLYTGEGDTRVRCFSCHAAV
 DRWQYGD SAVGRHRKVS PNCRFINGFYLENSATQSTNSGIQNGQYKVENYL GSRDHFALDRPSETHADYL
 LRTGQVVDI SDTIYPRNPAMYSEEARLKS FQNPWDY AHLTPRELASAGLYYTGIGDQVQCFCCGGKLNW
 EPCDRAWSEHRRHFPNCFV LGRNLNIRSESDAVSSDRNFPNSTNLPRNPSMADYEARIFFGTWIYSVN
 KEQLARAGFYALGEGDKVKCFHCGGGLTDWKPSDPWEQHAKWYPGCKYLLEQKGQEIYNNIHLTHSLEE
 CLVRTTEKTPSLTRRIDDTIFQNP MVQEAIRMGFSFKDIKKIMEEKIQISGSNYKSLEVLVADLVNAQKD
 SMQDESSQTS LQKEISTEEQLRRLQEEK LCKICMDRNIAIVFVPCGHLVTCKQCAEAVDKCPMCYT VITF
 KQKIFMS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

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

Restriction Sites:

SgfI-MluI

Cloning Scheme:


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).

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_001204401.2](#)

RefSeq Size: 8427 bp

RefSeq ORF: 1494 bp

Locus ID: 331

UniProt ID: [P98170](#)

Cytogenetics: Xq25

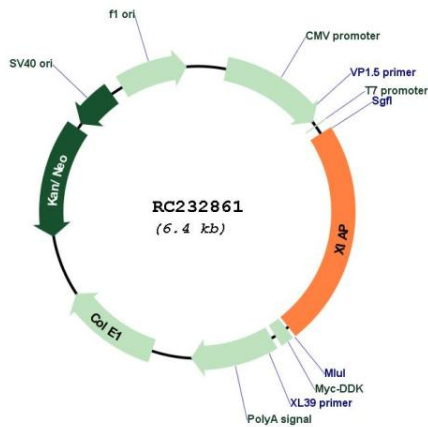
Protein Families: Druggable Genome

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 RC232861