

Product datasheet for **SC305009**

Livin (BIRC7) (NM_022161) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Livin (BIRC7) (NM_022161) Human Untagged Clone
Tag:	Tag Free
Symbol:	Livin
Synonyms:	KIAP; LIVIN; ML-IAP; MLIAP; RNF50
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_022161, the custom clone sequence may differ by one or more nucleotides

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ATGGGACCTAAAGACAGTGCCAAGTGCCTGCACCGTGGACCACAGCCGAGCCACTGGGCAGCCGGTGATG
GTCCCACGCAGGAGCGCTGTGGACCCCGCTCTCTGGGCAGCCCTGTCTAGGCCTGGACACCTGCAGAGC
CTGGGACCACGTGGATGGGCAGATCCTGGGCCAGCTGCGGCCCTGACAGAGGAGGAAGAGGAGGAGGGC
GCCGGGGCCACCTTGTCCAGGGGGCCTGCCTTCCCGGCATGGGCTCTGAGGAGTTGCGTCTGGCCTCCT
TCTATGACTGGCCGCTGACTGCTGAGGTGCCACCCGAGCTGCTGGCTGCTGCCGGCTTCTCCACACAGG
CCATCAGGACAAGGTGAGGTGCTTCTTCTGCTATGGGGCCTGCAGAGCTGGAAGCGGGGACGACCCC
TGGACGGAGCATGCCAAGTGTTCCCGAGCTGTCAGTTCCTGCTCCGGTCAAAGGAAGAGACTTTGTCC
ACAGTGTGCAGGAGACTACTCCAGCTGCTGGCTCCTGGGACCCGTGGGAAGAACCGGAAGACGCAGC
CCCTGTGGCCCCCTCCGTCCCTGCCTCTGGGTACCCTGAGCTGCCACACCCAGGAGAGAGGTCCAGTCT
GAAAGTGCCAGGAGCCAGGAGCCAGGGATGTGGAGGCGCAGCTGCGGCGGCTGCAGGAGGAGAGGACGT
GCAAGGTGTGCCTGGACCGCGCCGTGTCCATCGTCTTTGTGCCGTGCGGCCACCTGGTCTGTGCTGAGTG
TGCCCCGGCCTGCAGCTGTGCCCATCTGCAGAGCCCCCGTCCGCAGCCGCGTGCACACCTTCTGTCC
TAG
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Restriction Sites:	Please inquire
ACCN:	NM_022161



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_022161.2](#), [NP_071444.1](#)

RefSeq Size: 1268 bp

RefSeq ORF: 843 bp

Locus ID: 79444

UniProt ID: [Q96CA5](#)

Cytogenetics: 20q13.33

Protein Families: Druggable Genome

Gene Summary:

This gene encodes a member of the inhibitor of apoptosis protein (IAP) family, and contains a single copy of a baculovirus IAP repeat (BIR) as well as a RING-type zinc finger domain. The BIR domain is essential for inhibitory activity and interacts with caspases, while the RING finger domain sometimes enhances antiapoptotic activity but does not inhibit apoptosis alone. Elevated levels of the encoded protein may be associated with cancer progression and play a role in chemotherapy sensitivity. Alternative splicing results in multiple transcript variants [provided by RefSeq, Jul 2013]

Transcript Variant: This variant (2) uses an alternate in-frame splice site, compared to variant 1. The encoded isoform (beta) is shorter, compared to isoform alpha. Isoform beta protects cells from etoposide-induced apoptosis.