

Product datasheet for **RC204906**

Livin (BIRC7) (NM_139317) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Livin (BIRC7) (NM_139317) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Livin |
| Synonyms: | KIAP; LIVIN; ML-IAP; MLIAP; RNF50 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC204906 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGACCTAAAGACAGTGCCAAGTGCCTGCACCGTGGACCACAGCCGAGCCACTGGGCAGCCGGTGATG
 GTCCCACGCAGGAGCGCTGTGGACCCCGCTCTCTGGGCAGCCCTGTCTAGGCCTGGACACCTGCAGAGC
 CTGGGACCACGTGGATGGGCAGATCCTGGGCCAGCTGCGGCCCTGACAGAGGAGGAAGAGGAGGAGGGC
 GCCGGGGCCACCTTGTCAGGGGGCCTGCCTTCCCGGCATGGGCTCTGAGGAGTTGCGTCTGGCCTCCT
 TCTATGACTGGCCGCTGACTGCTGAGGTGCCACCCGAGCTGCTGGCTGCTGCCGGCTTCTCCACACAGG
 CCATCAGGACAAGGTGAGGTGCTTCTTCTGCTATGGGGGCCTGCAGAGCTGGAAGCGCGGGGACGACCCC
 TGGACGGAGCATGCCAAGTGTTCCCCAGCTGTCAATTCTGCTCCGGTCAAAAGGAAGAGACTTTGTCC
 ACAGTGTGCAGGAGACTCACTCCAGCTGCTGGGCTCCTGGGACCCGTGGGAAGAACCGGAAGACGCAGC
 CCCTGTGGCCCCCTCCGTCCCTGCCTCTGGGTACCCTGAGCTGCCACACCCAGGAGAGAGGTCCAGTCT
 GAAAGTGCCAGGAGCCAGGAGGGGTCACTCCAGCCCAGGCCAGAGGGCGTGGTGGTCTTGAAGCCCC
 CAGGAGCCAGGGATGTGGAGGCGCAGCTGCGGCGGCTGCAGGAGGAGAGGACGTGCAAGGTGTGCCTGGA
 CCGCGCCGTGTCCATCGTCTTTGTGCCGTGCGGCCACCTGGTCTGTGCTGAGTGTGCCCCCGCCTGCAG
 CTGTGCCCCATCTGCAGAGCCCCGTCCGACGCCGCGTGCGCACCTTCCTGTCC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC204906 protein sequence
Red=Cloning site Green=Tags(s)

MGPKDSAKCLHRGPQPSHWAAGDGPTQERCGRSLGSPVLGLDTCRAWDHVDGQILGQLRPLTEEEEEEG
AGATLSRGPAFPGMGSEELRLASFYDWPLTAEVPELLAAAGFFHTGHQDKVRCFFCYGGLQSWKRGGDP
WTEHAKWFPSCQFLLRSKGRDFVHSVQETHSQLLGSDPWEEPDAAPVAPSVPASGYPELPTPRREVQS
ESAQEPGGVSPAQAQRAWVLEPPGARDVEAQLRRLQEERTCKVCLDRAVSIVFVPCGHLVCAECAPGLQ
LCPICRAPVRSRVRTFLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6062_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_139317

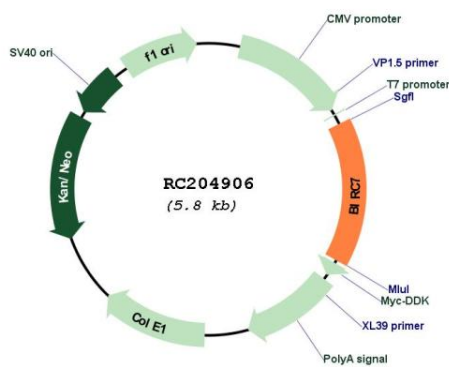
ORF Size: 894 bp

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.

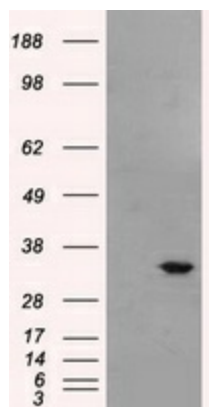
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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| 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: | <ol style="list-style-type: none"> 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_139317.3 |
| RefSeq Size: | 1386 bp |
| RefSeq ORF: | 897 bp |
| Locus ID: | 79444 |
| UniProt ID: | Q96CA5 |
| Cytogenetics: | 20q13.33 |
| Protein Families: | Druggable Genome |
| MW: | 32.8 kDa |
| 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] |

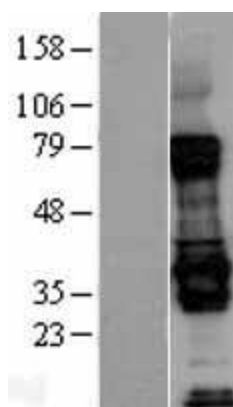
Product images:



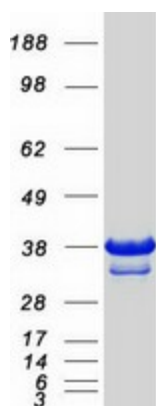
Circular map for RC204906



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BIRC7 (Cat# RC204906, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BIRC7 (Cat# [TA500758]). Positive lysates [LY403386] (100ug) and [LC403386] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403386]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204906 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BIRC7 protein (Cat# [TP304906]). The protein was produced from HEK293T cells transfected with BIRC7 cDNA clone (Cat# RC204906) using MegaTran 2.0 (Cat# [TT210002]).