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Product datasheet for RC204906

Livin (BIRC7) (NM_139317) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Livin (BIRC7) (NM_139317) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BIRC7
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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGACCTAAAGACAGTGCCAAGTGCCTGCACCGTGGACCACAGCCGAGCCACTGGGCAGCCGGTGATG
GTCCCACGCAGGAGCGCTGTGGACCCCGCTCTCTGGGCAGCCCTGTCCTAGGCCTGGACACCTGCAGAGC
CTGGGACCACGTGGATGGGCAGATCCTGGGCCAGCTGCGGCCCCTGACAGAGGAGGAAGAGGAGGAGGGC
GCCGGGGCCACCTTGTCCAGGGGGCCTGCCTTCCCCGGCATGGGCTCTGAGGAGTTGCGTCTGGCCTCCT
TCTATGACTGGCCGCTGACTGCTGAGGTGCCACCCGAGCTGCTGGCTGCTGCCGGCTTCTTCCACACAGG
CCATCAGGACAAGGTGAGGTGCTTCTTCTGCTATGGGGGCCTGCAGAGCTGGAAGCGCGGGGACGACCCC
TGGACGGAGCATGCCAAGTGGTTCCCCAGCTGTCAGTTCCTGCTCCGGTCAAAAGGAAGAGACTTTGTCC
ACAGTGTGCAGGAGACTCACTCCCAGCTGCTGGGCTCCTGGGACCCGTGGGAAGAACCGGAAGACGCAGC
CCCTGTGGCCCCCTCCGTCCCTGCCTCTGGGTACCCTGAGCTGCCCACACCCAGGAGAGAGGTCCAGTCT
GAAAGTGCCCAGGAGCCAGGAGGGGTCAGTCCAGCCCAGGCCCAGAGGGCGTGGTGGGTTCTTGAGCCCC
CAGGAGCCAGGGATGTGGAGGCGCAGCTGCGGCGGCTGCAGGAGGAGAGGACGTGCAAGGTGTGCCTGGA
CCGCGCCGTGTCCATCGTCTTTGTGCCGTGCGGCCACCTGGTCTGTGCTGAGTGTGCCCCCGGCCTGCAG
CTGTGCCCCATCTGCAGAGCCCCCGTCCGCAGCCGCGTGCGCACCTTCCTGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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

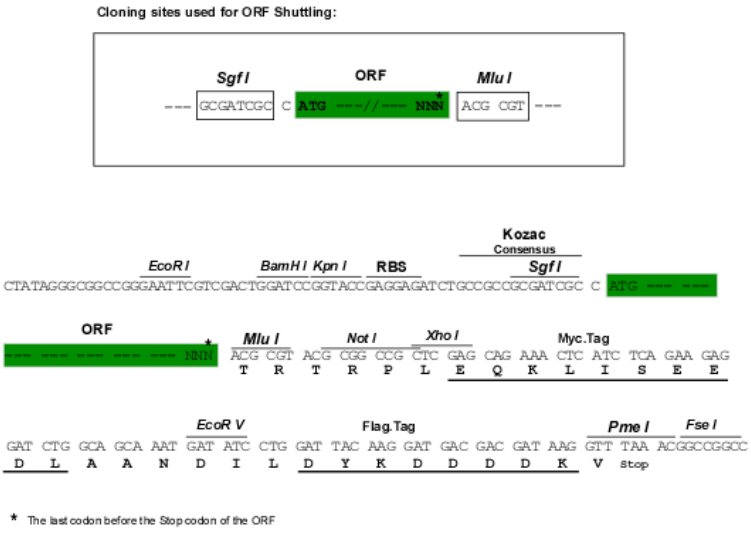
MGPKDSAKCLHRGPQPSHWAAGDGPTQERCGPRSLGSPVLGLDTCRAWDHVDGQILGQLRPLTEEEEEEG
AGATLSRGPAFPGMGSEELRLASFYDWPLTAEVPPELLAAAGFFHTGHQDKVRCFFCYGGLQSWKRGDDP
WTEHAKWFPSCQFLLRSKGRDFVHSVQETHSQLLGSWDPWEEPEDAAPVAPSVPASGYPELPTPRREVQS
ESAQEPGGVSPAQAQRAWWVLEPPGARDVEAQLRRLQEERTCKVCLDRAVSIVFVPCGHLVCAECAPGLQ
LCPICRAPVRSRVRTFLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

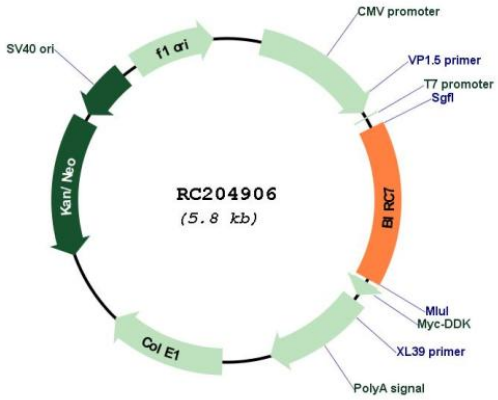
Chromatograms: https://cdn.origene.com/chromatograms/mk6062_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:

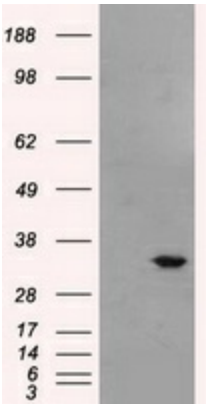


ACCN: NM_139317

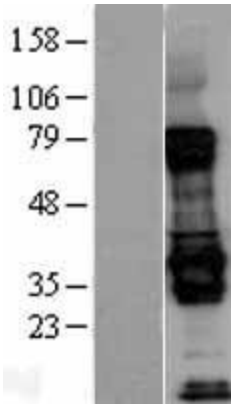
ORF Size:	894 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional 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
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_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]

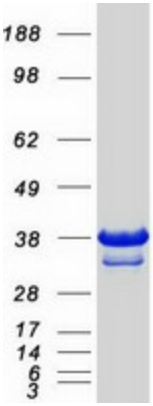
Product images:



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 un-transfected 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]).