

Product datasheet for **RG215363**

Livin (BIRC7) (NM_022161) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Livin (BIRC7) (NM_022161) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Livin
Synonyms:	KIAP; LIVIN; ML-IAP; MLIAP; RNF50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215363 representing NM_022161 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGACCTAAAGACAGTGCCAAGTGCCTGCACCGTGGACCACAGCCGAGCCACTGGGCAGCCGGTGATG
GTCCCACGCAGGAGCGCTGTGGACCCCGCTCTCTGGGCAGCCCTGTCTAGGCCTGGACACCTGCAGAGC
CTGGGACCACGTGGATGGGCAGATCCTGGGCCAGCTGCGGCCCTGACAGAGGAGGAAGAGGAGGAGGGC
GCCGGGGCCACCTTGCCAGGGGGCCTGCCTTCCCGGCATGGGCTCTGAGGAGTTGCGTCTGCCCTCCT
TCTATGACTGGCCGCTGACTGCTGAGGTGCCACCCGAGCTGCTGGCTGCTGCCGGCTTCTCCACACAGG
CCATCAGGACAAGGTGAGGTGCTTCTTCTGCTATGGGGGCTGCAGAGCTGGAAGCGCGGGGACGACCCC
TGGACGGAGCATGCCAAGTGTTCCCGAGCTGTCAATTCCTGCTCCGGTCAAAGGAAGAGACTTTGTCC
ACAGTGTGCAGGAGACTCACTCCAGCTGCTGGGCTCCTGGGACCCGTGGGAAGAACCAGGAGAGCAGC
CCCTGTGGCCCCCTCCGTCCCTGCCTCTGGGTACCCTGAGCTGCCACACCCAGGAGAGAGGTCCAGTCT
GAAAGTGCCAGGAGCCAGGAGCCAGGGATGTGGAGGCGCAGCTGCGGCGGCTGCAGGAGGAGAGGACGT
GCAAGGTGTGCTGGACCGCGCCGTGCCATCGTCTTTGTGCCGTGCGGCCACCTGGTCTGTGCTGAGTG
TGCCCCGGCTGCAGCTGTGCCCATCTGCAGAGCCCCCGTCCGAGCCGCGTGCACACCTTCTGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215363 representing NM_022161
 Red=Cloning site Green=Tags(s)

MGPKDSAKCLHRGPQPSHWAAGDGPTQERCGRSLGSPVLGLDTCRAWDHVDGQILGQLRPLTEEEEEEG
 AGATLSRGPAPFGMGSEELRLASFYDWPLTAEVPELLAAAGFFHTGHQDKVRCFFCYGGLQSWKRGDDP
 WTEHAKWFPSCQFLLRSKGRDFVHSVQETHSQLLGSDPWEEPEDAAPVAPSVPASGYPELPTPRREVQS
 ESAQEPGARDVEAQLRRLQEERTCKVCLDRAVSIIVFVPCGHLVCAECAPGLQLCPCICRAPVRSRVRTFLS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022161

ORF Size: 840 bp

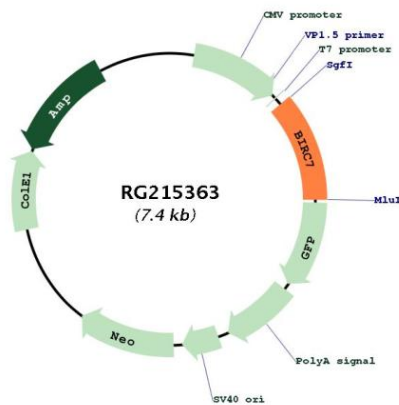
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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_022161.4](#)
- 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]

Product images:



Circular map for RG215363