

## Product datasheet for **MC219691**

### **Birc2 (NM\_007465) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Birc2 (NM_007465) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Birc2
Synonyms:	Api1; Api2; AW146227; Birc3; C-IAP1; C330006D17Rik; cIAP1; cIAP2; HIAP1; HIAP2; IAP1; IAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC219691 representing NM\_007465  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAAACTGTCTCCAGAGACTCGGCCAAGTACCTTACACCAAACTTAAACGTATAATGGAGA  
 AGAGCACAATCTTGCAATTGGACAAAGGAGAGCGAAGAAAAATGAAGTTGACTTTTCGTGTGAACT  
 CTACCGAATGTCTACATATTCAGCTTTCCAGGGGAGTTCTGTCTCAGAGAGGAGTCTGGCTCGTGCT  
 GGCTTTTATTATACAGGTGTGAATGACAAAGTCAAGTCTTCTGTGTGGCCTGATGTTGGATAACTGGA  
 AACAAAGGGGACAGTCTGTTGAAAAGCAGACAGTCTATCCCAGCTGCAGCTTGTACAGACTCTGCT  
 TTCAGCCAGTCTGCAGTCTCCATCTAAGAATATGTCTCCTGTGAAAAGTAGATTTGCACATTCGTACCT  
 CTGGAACGAGGTGGCATTCACTCCAACCTGTGCTTAGCCCTCTAATTCTAGAGCAGTGGAAAGACTTCT  
 CATCAAGGATGGATCCCTGCAGCTATGCCATGAGTACAGAAGAGGCCAGATTTCTTACTTACAGTATGTG  
 GCCTTTAAGTTTCTGTACCAGCAGAGCTGGCCAGAGCTGGCTTCTATTACATAGGGCCGGAGACAGG  
 GTGGCCTGTTTTGCCTGTGGTGGAAAAGTGAAGCACTGGGAACCAAGGATGATGCTATGTCAGAGCACC  
 GCAGACATTTTCCCCTGTCCATTTCTGGAAAATACTTCAGAAAACAGAGGTTTGTATATCAAACT  
 AAGTATGCAGACACACTCTGCTCGATTGAGGACATTTCTGTACTGGCCACCTAGTGTTCCTGTTACAGCC  
 GAGCAGCTTGAAGTGTGGATTCTATTACGTGGATCGCAATGATGATGTCAAGTGTCTTTGTTGTGATG  
 GTGGCTTGAGATGTTGGGAACCTGGAGATGACCCTGGATAGAACACGCCAAATGGTTTCCAAGGTGGA  
 GTTCTTGATACGGATGAAGGGTCAGGAGTTTGTGATGAGATCAAGCTAGATATCCCTCATCTTCTTGAG  
 CAGCTGTTGTCCACTTCAGACACCCAGGAGAAGAAAATGCTGACCCTACAGAGACAGTGGTGCATTTTG  
 GCCCTGGAGAAAAGTTCGGAAGATGTCGTCATGATGAGCACGCCTGTGGTTAAAGCAGCCTTGAAAATGGG  
 CTTCAGTAGGAGCCTGGTGAACAGACAGCGTTTCCAGCGCAGATCCTGGCCACTGGTGAGAAGTACAGGACC  
 GTCAATGATATTGTCTCAGTACTTTTGAATGCTGAAGATGAGAGAAGAGAAGAGGAGAAGGAAAAGCAGA  
 CTGAAGAGATGGCATCAGGTGACTTATCACTGATTGGAAGAATAGAATGGCCCTCTTCAACAGTTGAC  
 ACATGCTCTTCTATCCTGGATAATCTTCTTGAGGCCAGTGAATTACAAAACAGGAACATGATATTATT  
 AGACAGAAAACACAGATACCCCTACAAGCAAGAGAGCTTATTGACACCGTTTTAGTCAAGGGAAATGCTG  
 CAGCCAACATCTCAAAAACCTCTGAAGGAAATGACTCCACGTTATATGAAAACCTATTTGTGGAAAA  
 GAATATGAAGTATATTCCAACAGAAGACGTTTCAGGCTTGTGATTGGAAGAGCAGTTGCGGAGATTACAA  
 GAAGAACGAACCTGCAAAGTGTGTATGGACAGAGAGGTTTCTATTGTGTTTATTCCGTGTGGTCTATAG  
 TAGTCTGCCAGGAATGTGCCCTTCTCTAAGGAAGTGCCCATCTGCAGGGGACAAATCAAGGGGACTGT  
 GCGCACATTTCTCTCA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_007465
- Insert Size:** 1839 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_007465.3](#), [NP\\_031491.2](#)

**RefSeq Size:** 3333 bp

**RefSeq ORF:** 1839 bp

**Locus ID:** 11797

**UniProt ID:** [Q62210](#)

**Cytogenetics:** 9 A1

**Gene Summary:** Multi-functional protein which regulates not only caspases and apoptosis, but also modulates inflammatory signaling and immunity, mitogenic kinase signaling, and cell proliferation, as well as cell invasion and metastasis. Acts as an E3 ubiquitin-protein ligase regulating NF-kappa-B signaling and regulates both canonical and non-canonical NF-kappa-B signaling by acting in opposite directions: acts as a positive regulator of the canonical pathway and suppresses constitutive activation of non-canonical NF-kappa-B signaling. The target proteins for its E3 ubiquitin-protein ligase activity include: RIPK1, RIPK2, RIPK3, RIPK4, CASP3, CASP7, CASP8, TRAF2, DIABLO/SMAC, MAP3K14/NIK, MAP3K5/ASK1, IKBKG/NEMO, IKBKE and MXD1/MAD1. Can also function as an E3 ubiquitin-protein ligase of the NEDD8 conjugation pathway, targeting effector caspases for neddylation and inactivation. Acts as an important regulator of innate immune signaling via regulation of Toll-like receptors (TLRs), Nodlike receptors (NLRs) and RIG-I like receptors (RLRs), collectively referred to as pattern recognition receptors (PRRs). Protects cells from spontaneous formation of the ripoptosome, a large multi-protein complex that has the capability to kill cancer cells in a caspase-dependent and caspase-independent manner. Suppresses ripoptosome formation by ubiquitinating RIPK1 and CASP8. Can stimulate the transcriptional activity of E2F1. Plays a role in the modulation of the cell cycle.[UniProtKB/Swiss-Prot Function]

**Transcript Variant:** This variant (1) and variant 2 encode the same protein. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.