

## Product datasheet for **MR222337**

### **Birc3 (NM\_007464) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Birc3 (NM_007464) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Birc3
Synonyms:	Api1; Api2; AW107670; Birc2; C-IAP2; cIAP-1; cIAP-2; cIAP1; cIAP2; HIAP2; IAP1; IAP2; MIAP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>MR222337 representing NM\_007464  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACATGGTTCAAGACAGCGCTTTCTAGCCAAGCTGATGAAGAGTGTGACACCTTTGAGTTGAAGT  
 ATGACTTTTCTGTGAGCTGTACCGATTGTCCAGTATTAGCTTTTCCAGGGAGTTCCTGTGTGAGA  
 AAGGAGTCTGGCTCGTGTCTGGCTTTTACTACACTGGTCCAATGACAAGTCAAGTGCTTCTGCTGTGGC  
 CTGATGCTAGACAAGTGGAAACAAGGGACAGTCCCATGGAGAAGCACAGAAAGTTGTACCCAGCTGCA  
 ACTTTGTACAGACTTTGAATCCAGCCAACAGTCTGGAAGCTAGTCTCGGCCCTTCTCTTCTCCACGGC  
 GATGAGCACCATGCCTTTGAGCTTTGCAAGTCTGAGAATACTGGCTATTTAGTGGCTCTTACTCGAGC  
 TTTCCCTCAGACCCTGTGAATCCGAGCAAATCAAGATTGTCTGCTTTGAGCACAAGTCCCTACCACT  
 TTGCAATGAACACAGAGAAGGCCAGATTACTCACCTATGAAACATGGCCATTGTCTTTTCTGTACCAGC  
 AAAGCTGGCCAAAGCAGGCTTCTACTACATAGGACCTGGAGATAGAGTGGCTGCTTTGCGTGCATGGG  
 AAAGTGAACAAGTGGAAACGTAAGGATGATGCTATGTCAGAGCACCAGAGGCATTTCCCAAGCTGTCCGT  
 TCTAAAAGACTTGGGTGAGTCTGCTTCGAGATACACTGTCTTAACTGAGCATGCAGACACACGAGC  
 CCGTATTAGAACATTCTTAAGTGGCTTCTAGTGCACACTGTTTCCAGGAAGTTGCAAGTGGGGC  
 TTTTATTATACAGGACACAGTGTGATGTCAGTGTGTTTGTGTGATGGTGGGCTGAGGTGCTGGGAAT  
 CTGGAGATGACCCTGGGTGGAACATGCCAAGTGGTTTCCAAGGTGTGAGTACTTGTCTCAGAATCAAAGG  
 CCAAGAATTTGTAGCAAGTCAAGCTGGCTATCCTCATCTACTGAGCAGCTATTATCTACGTGAGC  
 TCCCAGAAAGTGAAGTGCAGACGCAGCAATCGTGCATTTTGGCCCTGGAGAAAGTTCGGAAGATGTCTG  
 TCATGATGAGCAGCCTGTGGTTAAAGCAGCCTTGGAAATGGGCTTCAGTAGGAGCCTGGTGAGACAGC  
 GGTTGAGTGGCAGATCCTGGCCACTGGTGAGAATACAGGACCTCAGTACCTCGTTATAGGCTTACTC  
 GATGCAGAAGACGAGATGAGAGAGGAGCAGATGGAGCAGGCGGCCGAGGAGGAGGAGTGCAGATGATCTAG  
 CACTAATCCGGAAGAACAATGGTGTCTTTTCCAACATTTGACGTGTGTGACACCAATGTGTATTGCTT  
 CCTAAGTGAAGGCCATCACTGAACAGGAGTGAATGCTGTGAAACAGAAACCACACACCTTACAAGCA  
 AGCACACTGATTGACTGTGTTAGCAAAAGGAAACACTGCAGCAACCTCATTGAGAACTCCCTTCGGG  
 AAATTGACCTGCGTTATACAGAGATATATTTGTGCAACAGGACATTAGGAGTCTTCCACAGATGACAT  
 TGCAGCTCTACCAATGGAAGAACAGTTGCGGAACTCCAGGAGGAAAGAATGTGTAAGTGTGTATGGAC  
 CGAGAGGTATCCATCGTGTTCATCCCTGTGGCCATCTGGTGTGTGCAAGACTGCGCTCCCTCTCTGA  
 GGAAGTGTCCATCTGTAGAGGGACCATCAAGGGCACAGTGCACATTTCTCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR222337 representing NM\_007464  
 Red=Cloning site Green=Tags(s)

MNMVQDS AFLAKLMKSADTFELKYDF SCEL YRLSTYS AFPRGVPV SERSLARAGFY YTGANDKVKCFCCG  
 LMLDNWKQGDSPMEKHKRLYPSCNFVQTLNPNANLEASPRPSLPSTAMSTMPLSFASSENTGYFSGSYSS  
 FPSDPVNFNANQDCPALSTSPYHFAMNTEKARLLTYETWPLSFLSPAKLAKAGFYIIGPDRVACFACDG  
 KLSNWERKDDAMSEHQHFSPFPFLKDLGQSASRYTVSNLSMQTHAARIRTF SNWPSSALVHSQELASAG  
 FYYTGHSDDVKCFCCDGGRLRCWESGDDPWVEHAKWFPRCEYLLRIKQEFVSQVQAGYPHLLQLLSTSD  
 SPEDENADAAIVHFGPGESEDDVMMSTPVVKAALVEMGF SRSLVRQTVQWQILATGENYRTVSDLVIGLL  
 DAEDEMREEQMEQAAEEEEESDDLALIRKNMVL FQHLTCVTPMLYCLLSARAI TEQECNAV KQKPHLQA  
 STLIDTVLAKGNTAATSFNLSREIDPALYRDI FVQDIRSLPTDDIAALPMEEQLRKLQEERMCKV CMD  
 REVSIVFIPCGHLVVCKDCAPSLRKCPICRGTIKGTVRTFLS

**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

SgfI-MluI

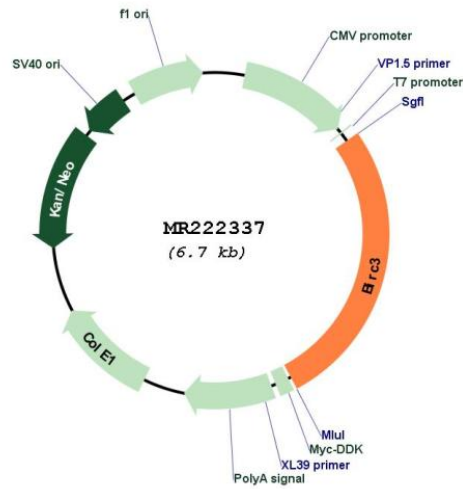
**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



ACCN: NM\_007464

ORF Size: 1806 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_007464.3</a> , <a href="#">NP_031490.2</a>
<b>RefSeq Size:</b>	2820 bp
<b>RefSeq ORF:</b>	1809 bp
<b>Locus ID:</b>	11796
<b>UniProt ID:</b>	<a href="#">O08863</a>
<b>Cytogenetics:</b>	9 A1
<b>MW:</b>	67.9 kDa
<b>Gene Summary:</b>	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, IKBKE, TRAF1, and BCL10. 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.[UniProtKB/Swiss-Prot Function]